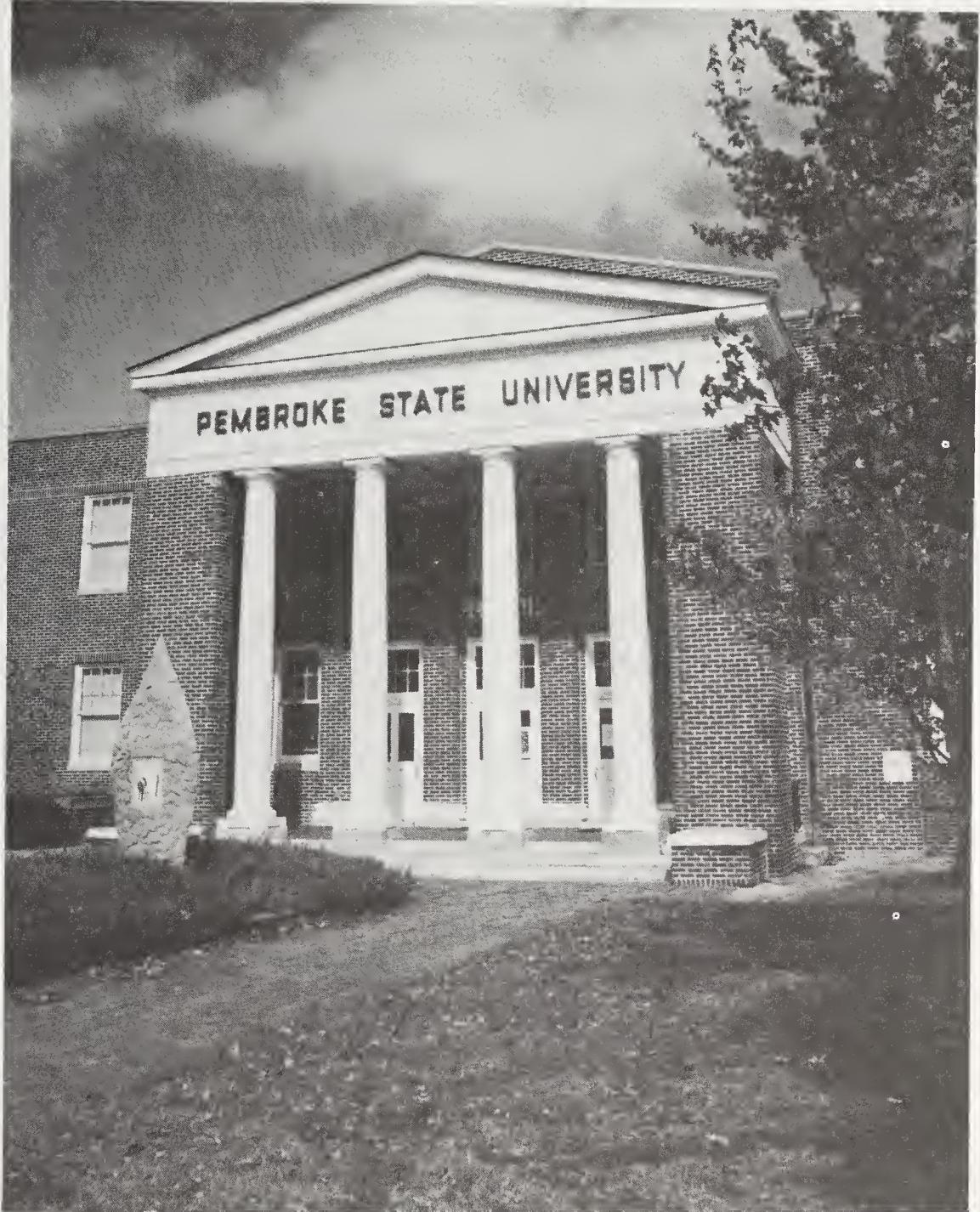


PEMBROKE STATE UNIVERSITY



1990-91 CATALOG



PEMBROKE STATE UNIVERSITY

Pembroke State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Bachelor's and Master's level degrees.

Pembroke State University is accredited by or is a member of:

The North Carolina Association of Colleges and Universities
The National Council for Accreditation of Teacher Education
The National Association of Schools of Music
The American Association of College for Teacher Education
The American Council on Education
The North Carolina Criminal Justice Education and Training Standards Commission
The North Carolina State Board of Education
The Association of Field Services in Teacher Education
The American Association of State Colleges and Universities
The Council on Social Work Education

* * * * *

This catalog provides the basic information you will need about Pembroke State University. It includes our history and current goals, admissions standards and requirements, tuition and other costs, sources of financial aid, and rules and regulations that govern student life. This catalog also describes our student organizations and other activities on the campus, lists courses and programs by department, and contains the name, rank, and educational background of each faculty member.

Pembroke State University is committed to equality of educational opportunity and does not discriminate against applicants, students, or employees based on color, national origin, religion, sex, age, or handicap. Moreover, Pembroke State University is open to people of all races and actively seeks to promote racial integration by recruiting and enrolling a larger number of black students.

* * * * *

Pembroke State University reserves the right to change without notice any fee, provision, offering, or requirement in this catalog, and to determine whether a student has satisfactorily met the requirements for admission or graduation.

* * * * *

Pembroke State University is one of sixteen universities in The State of North Carolina that make up The University of North Carolina.

Pembroke State University has a thirteen-member Board of Trustees, and it, like the other institutions of The University of North Carolina, is subject to the governing regulations of The Board of Governors of The University of North Carolina.

ABOUT THE COVER: "Old Main" is the oldest building on Pembroke State University's campus and the first brick building for the school, completed in 1923.

This catalog was prepared under the auspices of the PSU Office of Public Information

Dr. Monika Brown, Editor

Kim Thompson, Associate Editor

Bobby Ayers, Photographer

Monnie Sanderson, Editorial Assistant

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VOL. XXX

FALL, 1990

NO. 1

PEMBROKE STATE UNIVERSITY



1990-1991 CATALOG

WHOM TO CONTACT ABOUT		Telephone (919) 521-4214
Academic Records & Transcripts.....	Office of Records and Special Programs, Ext. 303	
Administrative Studies.....	Director of Administrative Studies, Ext. 531	
Admissions	Office of Admissions, Ext. 262	
Alumni Affairs		Ext. 213
Bookstore	Student Supply Store Manager, Ext. 222	
Career Planning	Office of Career Planning & Placement, Ext. 270	
Catalog	Office of Public Information, Ext. 249	
Commencement.....	Office for Student Affairs, Ext. 226	
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	Office of Financial Aid, Ext. 339	

All communications should be directed to the proper University office and addressed to:

Pembroke State University
Pembroke, North Carolina 28372-1510

PEMBROKE STATE UNIVERSITY

Academic Programs Offered and Degrees Conferred

American Indian Studies, B.A.	Health and Physical Education, B.S.
Art, B.A.	Health and Physical Education, B.S.
Art Education, B.S.	Recreation Management/ Administration, B.S.
Biology, B.S.	Sports Medicine/ Athletic Training, B.S.
Medical Technology, B.S.	
Biology Education, B.S.	
Business Administration	History, B.A.
Accounting, B.S.	Social Studies Education, B.A.
Management, B.S.	Mathematics, B.S.
Office Administration, B.S.	Computer Science, B.S.
Business Education, B.S.	Mathematics Education, B.S., M.A.Ed.
Business, Applied Science, B.S.A.S.	Music, B.A.
Chemistry, B.S.	Music Education
Medical Technology, B.S.	Instrumental, B.S.
Communicative Arts	Vocal, B.S.
Dramatic Literature & Performance, B.A.	Philosophy and Religion, B.A.
Literature, B.A.	Physical Science
English Education, B.A., M.A.Ed.	Chemistry, B.S.
Contracted Major, B.A.	Political Science, B.A.
(Mass Communication and Others)	Pre-Law, B.A.
Computer Science, B.S.	Public Administration, B.A.
Economics, B.A.	Psychology, B.S.
Educational Administration and Supervision, M.A.Ed.	Science Education, B.S.
Elementary Education	Social Work, B.S.
Early Childhood, B.S., M.A.Ed.	Sociology, B.A.
Intermediate, B.S., M.A.Ed.	Criminal Justice, B.A.
Middle Grades Education	Special Education
B.S., (G Certification)	Learning Disabilities, B.S.
Reading Education, M.A.Ed.	Mental Retardation, B.S.

Academic Minors Offered

American Indian Studies	Language	Psychology
Applied Gerontology	Legal Studies	Public Administration
Art	Literature	Public Relations
Athletic Coaching	Mathematics	Communication
Business Administration	Medical Sociology	Recreation
Computer Science	Mental Health	Religion
Criminal Justice	Music	Sacred Music
Economics	Personnel and Organiza- tional Leadership	Social Welfare
French	Philosophy and Religion	Sociology
Geography	Philosophy	Speech
Health Education	Physical Education	Theatre
History	Political Science	World Studies
Jazz Studies		Writing
Journalism		

Other Academic Offerings

Chancellor's Scholars Program
College Opportunity Program

Aerospace Studies: Air Force ROTC
Military Science: Army ROTC

SUMMARY OF BASIC STUDIES REQUIREMENTS***A. Basic Skills (6 hours)**

CMA 105, 106

B. Humanities (18 hours)

1. Fine Arts (3 hours) Choice of one: ART 205, CMA 250, MUS 230, 295
2. Literature (3 hours) Choice of one: CMA 203, 205, 206
3. History (3 hours) Choice of one: HST 101, 102, 126, 127, 210 (AIS 210)
4. Philosophy/Religion (3 hours) Choice of one: PHI 100, 101, 204; REL 130
5. Humanities Electives (6 hours)

Choice of two courses, to be chosen from two areas below. A student may elect six hours of foreign language. Chancellor's Scholars may elect six hours from Area 5. Teacher Education candidates take history and literature.

Area 1. Fine Arts: ART 101, 205; CMA 250; MUS 113, 209, 230, 296

Area 2. Communicative Arts: CMA 100, 101, 204, 205, 206, 207, 220 (AIS 220), CMA 221, 246; FRH 131, 132, 231, 232; GER 131, 132; SPN 131, 132, 231, 232

Area 3. History: HST 101, 102, 126, 127, 210 (AIS 210)

Area 4. Philosophy/Religion: AIS 201, PHI 100, 101, 102 (REL 102), 202, 204, 205, 211; REL 105, 106, 130, 209, 213 (AIS 213), REL 214, 216, 218

Area 5. Chancellor's Scholars only: CSP 200, 201

Note: No more than two of the following courses — AIS 201, 210 (HST 210), AIS 213 (REL 213), AIS 220 (CMA 220) — shall apply to requirements.

C. Social Science (12 hours)

Choice of four out of five disciplines, with 3 hours in each of the four.

Economics: ECN 201

Geography: GGY 101, 102, 200, 206 (ECN 206)

Political Science: PLS 100, 101

Psychology: PSY 101

Sociology SOC 101, 105, 201

Chancellor's Scholars may substitute CSP 100 and 275 for courses in any two disciplines.

D. Natural Science and Mathematics (12 hours)

1. Biology (3 hours) — BIO 100
 2. Physical Science (3 hours) — Choice of one: CHM 100, PHS 110, 111; PHY 100, 150, 200 (Chancellor's Scholars only: CSP 250)
 3. Mathematics (3 hours) — Choice of one: 105, 106, 107, 108, 109, 221
 4. NatSci/Math Elective (3 hours) — Choice of one from Categories 2 and 3 or from the following: BIO 100L, 101, 102, 103, 201, 207, 210; CHM 100, 101; CSC 200, 201, 210; GLY 100, 115; MAT 105, 106, 107, 108, 109, 118, 210, 221, 222; PHS 110, 111, 116, 156; PHY 100, 101, 115, 150, 151, 200, 201. Chancellor's Scholars only: CSP 240.
- E. Physical Education (2 hours) Select from PED 101, 130, 131, 132, 133, 134, 135, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 149, 171, 172, 175, 176, 177, 178, 179, 180.

*See page 77 for complete description of Basic Studies Requirements.

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PEMBROKE STATE UNIVERSITY**CALENDAR — 1990-91****FIRST SEMESTER**

August 19, Sunday	1:00 p.m. - Residence Halls Open for Freshmen who have not attended Freshman Orientation
August 19-21, Sunday-Tuesday	Orientation and Testing Program
August 20-22, Monday-Wednesday	9:00 a.m. - 4:00 p.m. - Registration 8:00 a.m. - 6:00 p.m. - Graduate Registration 8:00 a.m. - Residence Halls Open for Non-Freshmen 4:00 p.m. - 6:00 p.m. - Registration for Evening Students 8:00 a.m. - Classes Begin 6:30 p.m. - Graduate Classes Begin
August 21, Tuesday	
August 23, Thursday	
August 23, 24, & 27 Thursday, Friday & Monday	Drop-Add - (No Charge) Drop-Add Fee Begins
August 28, Tuesday	5:00 p.m. - Last Day to Register for a Class or to Add a Class Holiday
August 31, Friday	Last Day to Drop a First-Eight-Week Course with a "W" Grade
September 3, Monday	End of First Six Weeks and Last Day to Drop a Course with a "W" Grade
September 14, Friday	
October 5, Friday	
October 17, Wednesday	4:00 p.m. - Mid-Semester Grades Due
October 18-19, Thursday-Friday	Fall Break
October 19, Friday	Mid-Point of the Semester. Last Date for Prorated Tuition/Fee Refund
November 7, Wednesday	10:00 - 11:15 a.m. - Departmental Majors Meetings
November 7-21, Wednesday-Wednesday	9:00 a.m. - 4:00 p.m. - Advisement and Early Registration (Undergraduate) 8:00 a.m. - 5:00 p.m. - Advisement and Early Registration (Graduate) Last Day to Drop a Second-Eight-Week Course with a "W" Grade
November 9, Friday	
November 14, 15, 19, & 20 Wednesday, Thursday, Monday & Tuesday	4:00 - 6:00 p.m. - Evening Advisement and Early Registration
November 22, 23 Thursday - Friday	Holidays
December 10, Monday	10:00 p.m. - Classes End
December 11, Tuesday	Reading Day for Final Examinations
December 12-18, Wednesday - Tuesday	Final Examinations
December 19, Wednesday	5:00 p.m. - All Residence Halls Close

SECOND SEMESTER

January 3, Thursday	8:00 a.m. - All Residence Halls Open
January 3-4, Thursday-Friday	9:00 a.m. - 4:00 p.m. - Undergraduate Registration 8:00 a.m. - 6:00 p.m. - Graduate Registration
January 3, Thursday	4:00 p.m. - 6:00 p.m. - Registration for Evening Students 6:30 p.m. Graduate Classes Begin
January 7, Monday	8:00 a.m. - Undergraduate Classes Begin
January 7-8, Monday-Tuesday	Drop-Add (No Charge)
January 9, Wednesday	Drop-Add Fee Begins
January 14, Monday	5:00 p.m. - Last Day to Register for a Class or to Add a Class
January 18, Friday	Last Day to Drop a First-Eight-Week Class with a "W" Grade
January 21, Monday	Holiday
February 18, Monday	End of First Six Weeks and Last Day to Drop a Class with a "W" Grade
March 1, Friday	4:00 p.m. - Mid-Semester Grades Due. Mid-Point of the Semester. Last Date for Prorated Tuition/Fee Refund
March 4-8, Monday-Friday	5:00 p.m. - All Residence Halls Close
March 10, Sunday	Spring Vacation
March 25, Monday	1:00 p.m. - All Residence Halls Open
March 29, April 1 Friday, Monday	Last Day to Drop a Second-Eight-Week Class with a "W" Grade
April 3, Wednesday	Holidays
April 3-17, Wednesday-Wednesday	10:00-11:15 a.m. - Departmental Majors Meetings
April 10, Wednesday	9:00 a.m. - 4:00 p.m. - Advisement and Early Registration (Undergraduate)
April 11, & 15-17 Thursday, Monday-Wednesday	8:00 a.m. - 5:00 p.m. - Advisement and Early Registration (Graduate) 10:15 a.m. - Awards Day
May 1, Wednesday	4:00 p.m. - 6:00 p.m. - Evening Advisement and Early Registration
May 2, Thursday	10:00 p.m. - Classes End
May 3-9, Friday-Thursday	Reading Day for Final Examinations
May 9, Thursday	Final Examinations
May 10, Friday	8:00 a.m. - Senior Grades Due
May 11, Saturday	5:00 p.m. - All Residence Halls Close 2:00 p.m. - Commencement

SUMMER SESSION - 1991**FIRST TERM**

May 28-29, Tuesday-Wednesday	9:00 a.m. - 4:00 p.m. - Registration
May 29, Wednesday	8:00 a.m. - All Residence Halls Open
May 30, Thursday	8:00 a.m. - Classes Begin
May 31, Friday	Late Registration Fee and Change of Course Fee Apply Last Day to Register for Course Credit
June 10, Monday	Last Day to Drop a Course with a "W" Grade
June 11, Tuesday	8:00 a.m. - Intra-Session Begins
June 24-28, Monday-Friday	8:00 a.m. - 6:00 p.m. - Graduate Registration and First Class at 6:00 p.m.
July 1, Monday	1:00 p.m. - 4:00 p.m. - Early Registration for Second Session
	Final Examinations for First Term of Summer School for Undergraduates and Last Day of First Term of Summer School

SECOND TERM

July 1, Monday	8:00 a.m. - 4:00 p.m. - Undergraduate Registration
	8:00 a.m. - 6:00 p.m. - Graduate Registration and Graduate Classes Begin at 6:00 p.m.
July 2, Tuesday	8:00 a.m. - Classes Begin
July 3, Wednesday	Last Day to Register for Course Credit
July 4, Thursday	Late Registration Fee and Change of Course Fee Apply
July 12, Friday	Holiday
August 2, Friday	Last Day to Drop a Course with a "W" Grade
	Final Examinations for Second Term of Summer School for Undergraduates and Last Day of Second Term of Summer School
	5:00 p.m. - All Residence Halls Close

PEMBROKE STATE UNIVERSITY

PEMBROKE, NORTH CAROLINA 28372



OFFICE OF THE CHANCELLOR

Dear Students and Parents:

Pembroke State University is a unique institution of higher education. It began as a small normal school for the American Indians of Robeson County in 1887. Over the past century, it has grown in size, in diversity, and in distinction. Today, it ranks as one of the significant universities within The University of North Carolina system.

Although this institution was restricted to American Indians until the 1950's, today's student body consists of approximately 63 percent White, 23 percent American Indian, and 12 percent Black. We are proud of this ethnic diversity which is unparalleled in this country.

The academic programs at Pembroke State University emphasize a balance between a strong liberal arts education and preparation for diversified careers. We recognize the paramount need to prepare students to assume leadership roles in society, to become effective citizens, and to live fulfilling lives. In addition, we recognize that today's graduates must have flexible career options to avoid the problem of planned human obsolescence, a characteristic which is too evident in many vocationally-oriented curricula.

While providing a broad, traditional liberal arts education, the University still offers a curriculum designed to prepare students for a wide range of career opportunities. At present, we offer 46 program specializations at the undergraduate level and 10 specializations in our expanding graduate program.

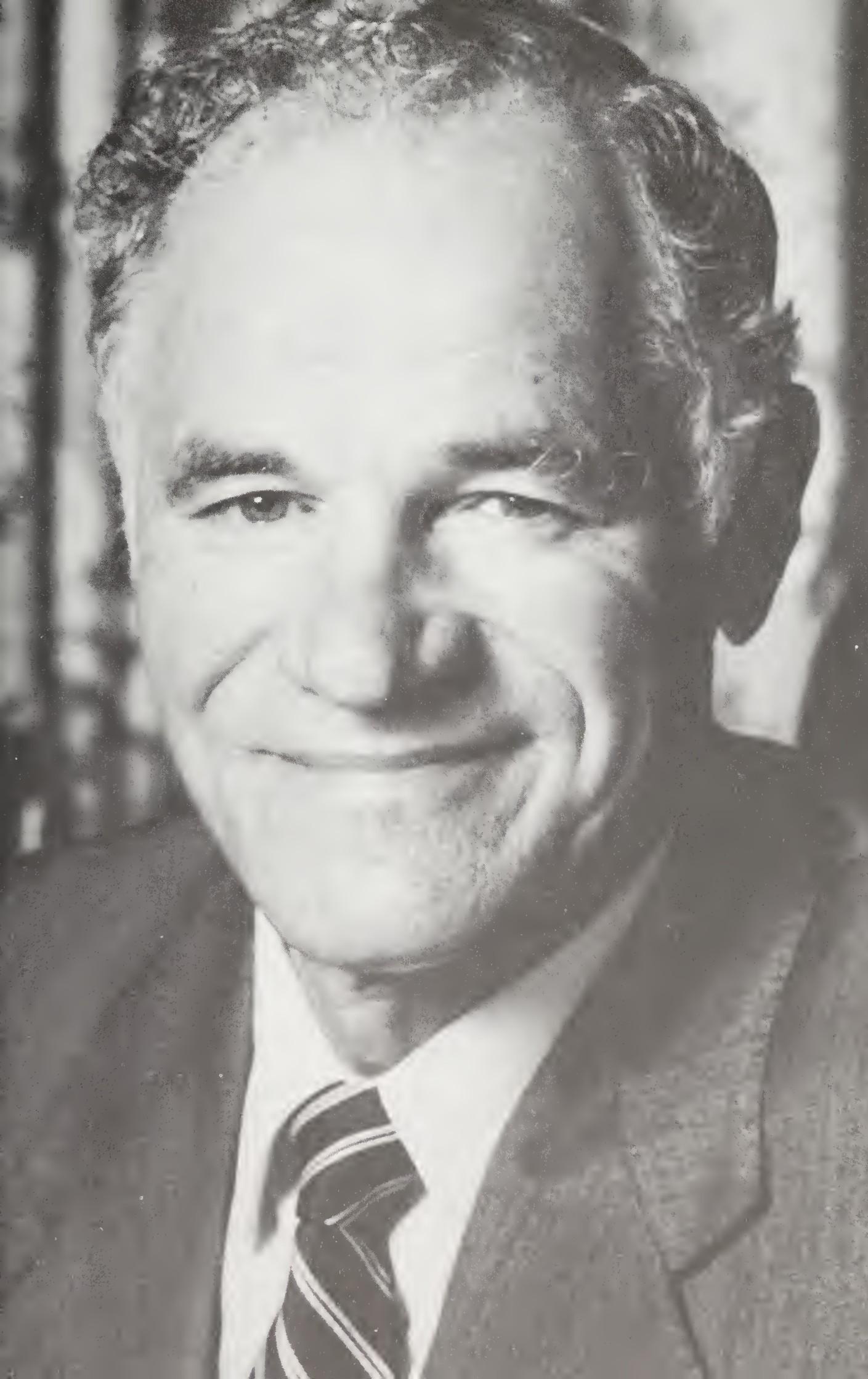
Pembroke State University takes pride in the strength of its academic programs, but faculty and administrators realize that good education does not take place in a vacuum. Student-faculty interaction, club activities, varsity and intramural sports, performing arts, community service programs, and a host of other co-curricular activities are available and are encouraged.

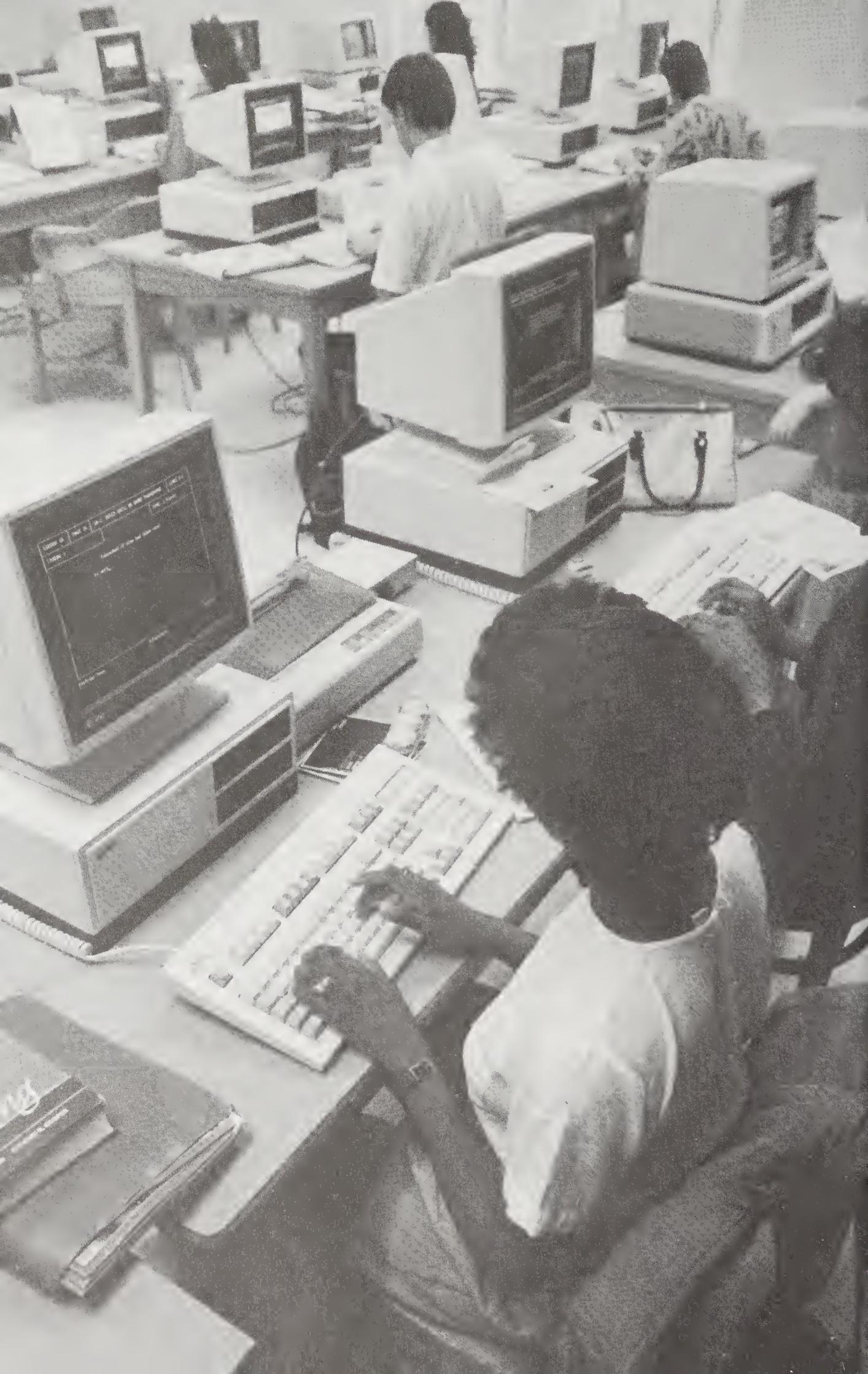
I hope this catalog provides you with a clear view of the breadth and depth of our programs as well as some sense of the vitality of Pembroke State University. If you would like to really get to know us, I strongly urge you to visit our campus.

Sincerely,

 A handwritten signature in black ink, appearing to read "Joseph B. Oxendine". Below the signature, the name is printed in a smaller, serif font.

Joseph B. Oxendine
Chancellor





Organization

The University of North Carolina

Pembroke State University

Trustees

Administration

Mission of the University

Faculty Senate

THE UNIVERSITY OF NORTH CAROLINA

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*Members Emeriti

ORGANIZATION

21

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1134 Woodland Drive
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Tel: Bus. 919/243-4248

Reginald F. McCoy
P.O. Box 666
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Tel: Bus. 919/276-0861
Res. 919/276-2875

Mrs. Martha F. McNair
1215 Tartan Court
Winston-Salem 27106

Tel: Bus. 919/748-1933

D. Samuel Neill
222 3rd Avenue West
Hendersonville 28739

Tel: Bus. 704/693-1739
Res. 704/693-0621

Ellen S. Newbold
Route 2, Box 255
Rose Hill 28458

Tel: Bus. 919/289-4376

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2305 Sunset Hill
Burlington 27215

Tel: Bus. 919/226-1151
Res. 919/584-7352

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Suite 110
Raleigh 27605

Tel: Bus. 919/856-4401
Bus. 202/224-3154
Res. 919/489-6326

W. Travis Porter
400 Beta Bldg.
P.O. Box 13646
Research Triangle Park 27709

Tel: Bus. 919/361-4900
Res. 919/489-4928

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114 Grimball Dr.
Hazelwood 28738

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Res. 704/456-5351

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Washington 27889

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Res. 919/946-3956

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2100 Otis Street
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Durham 27702

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Res. 919/489-2746

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Res. 919/244-1414

Gus Tulloss
P.O. Box 1480
Rocky Mount 27801

Tel: Bus. 919/977-3633
Res. 919/442-1093

Harold H. Webb
1509 Tierney Circle
Raleigh 27610

Tel: Bus. 919/834-8862

Dr. Ruth Dial Woods
P.O. Box 1328
Lumberton 28359

Tel: Bus. 919/739-9717
Res. 919/521-9006

(One Vacancy)

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 Dr. Ruth Dial Woods

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**THE UNIVERSITY OF NORTH CAROLINA:
GENERAL ADMINISTRATION****Sixteen Constituent Institutions**

C.D. SPANGLER, JR., B.S., M.B.A., D.H.L., LL.D. — President
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 ROY CARROLL, B.A., M.A., Ph.d. — Vice President-Planning
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 JAY M. ROBINSON, B.S., M.A., Ed.D. — Vice President-Public Affairs
 D. G. MARTIN, JR., B.A., LL.B. — Secretary of the University
 RICHARD H. ROBINSON, JR., A.B., LL.B. — Assistant to the President
 JOHN W. DUNLOP, B.A. — Director, the University of North Carolina Center for Public Television

HISTORY OF THE UNIVERSITY OF NORTH CAROLINA

The University of North Carolina is comprised of all the public institutions of higher education in North Carolina that confer degrees at the baccalaureate level or higher. The University was authorized by the State Constitution in 1776, and it was chartered in 1789 by the General Assembly.

The University of North Carolina opened its doors to students at Chapel Hill in 1795. Thereafter, beginning in the latter part of the nineteenth century, the General Assembly of North Carolina has established and supported fifteen other public senior institutions in keeping with Article IX, Section 8, of the Constitution of North Carolina which provides that the "General Assembly shall maintain a public system of higher education, comprising The University of North Carolina and such other institutions of higher education as the General Assembly may deem wise."

By 1969, The University of North Carolina included six constituent institutions, governed by a single Board of Trustees. This multi-campus University had its beginnings in legislation enacted in 1931 that defined The University of North Carolina to include The University of North Carolina At Chapel Hill, North Carolina State University at Raleigh, and The University of North Carolina at Greensboro. In the 1960's three additional campuses were added: The University of North Carolina at Charlotte, The University of North Carolina at Asheville, and The University of North Carolina at Wilmington.

Beginning in 1877, the General Assembly of North Carolina established or acquired ten additional separately governed state-supported senior institutions of higher education. They are Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University. Then, in 1971, the General Assembly redefined The University of North Carolina, and under the terms of that legislation all sixteen public senior institutions became constituent institutions of The University of North Carolina.

The constitutionally authorized Board of Trustees of the sixteen-campus University of North Carolina was designated the Board of Governors and this body is by law The University of North Carolina. The Board of Governors consists of thirty-two members elected by the General Assembly, and it is charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." The chief executive officer of The University is the President.

Each constituent institution of The University has its own faculty and student body. The chief administrative officer of each institution is the chancellor, and the chancellors are responsible to the President.

Each constituent institution also has a board of trustees composed of thirteen members: eight elected by the Board of Governors, four appointed by the Governor, and the elected president of the student body, *ex officio*. The School of the Arts has two additional *ex officio trustees*. The principal powers of these institutional boards are exercised under a delegation of authority from the Board of Governors.

PEMBROKE STATE UNIVERSITY
MEMBERS OF THE BOARD OF TRUSTEES

1990-1991

Term Expires	Appointed By	Name and Address	Telephone	
			Business	Residence
1991	B/G's	Bass, Marion (Vice Chairman) 4000 Park Road Charlotte, NC 28209	704-523-9407	704-365-1780
1991	G	Bell, James F. P.O. Box 1210 Pembroke, NC 28372	919-521-3253	919-521-4622
1993	G	Biggs, Murchison Bolton P.O. Box 967 Lumberton, NC 28359	919-739-2871	919-739-8057
1991	B/G's	Evans, Wayne P.O. Box 1529 Laurinburg, NC 28352	919-277-1125	919-276-8867
1991	B/G's	Lowery, Dennis P.O. Box 65221 Charlotte, NC 28265	704-392-2311	704-545-6805
1993	B/G's	Lowry, Jerry Route 1, Box 350 Rowland, NC 28383	919-521-8197	919-521-9044
1993	B/G's	Nicholson, John C. 201 Stirling Dr. Lumberton, NC 28358	919-739-3277	919-739-2281
1991	G	Oxendine, H. Dobbs Sr. 1704 W. 5th St. Lumberton, NC 28358	919-738-7531	919-738-7907
1993	B/G's	Ransom, Julian Route 1, Box 27 Pembroke, NC 28372		919-521-4730
1991	B/G's	Thomas, Willie P.O. Box 1302 Laurinburg, NC 28352	919-276-0611	919-276-3264
1993	B/G's	Williams, Gloria P.O. Box 370 Raeford, NC 28376	919-875-4106	919-875-2205
1993	G	Winfrey, Rosa R. (Chairman) 428 West Boulevard Charlotte, NC 28203	794-343-5400	704-365-0841
		ex officio member: Vaughn, Christopher President, Student Government Association 126 West Circle Court Fayetteville, N.C. 28301		

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STANLEY G. KNICK, B.A., M.A., Ph.D.	<i>Director/Curator of Native American Resource Center</i>
A. WARREN LOVE, B.S., M.Ed.	<i>Director of Media Center</i>

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HORACE BURNETTE.....	<i>Director of Physical Plant</i>
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BILLY DEES, B.S.C.E., P.E.	<i>University Engineer</i>
EDYTHE MURRAY	<i>Switchboard Supervisor</i>
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KATE LOCKLEAR.....	<i>Personnel Officer</i>
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SHANNON BURKS, B.A.....	<i>Director of Purchasing Services</i>
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PATRICIA LAMBERT	<i>Cashier</i>
DAVID VANDENBERG	<i>Director of Food Services</i>

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UNIVERSITY PUBLIC SAFETY DEPARTMENT

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CHARLES BRYANT..... *Campus Police Chief*

HISTORY OF PEMBROKE STATE UNIVERSITY

On March 7, 1887 the General Assembly of North Carolina enacted legislation sponsored by Representative Hamilton McMillan of Robeson County creating the Croatan Normal School. The law, which was in response to a petition from the Indian people of the area, established a Board of Trustees and appropriated five hundred dollars to be used only for salaries. A building was constructed by the local people at a site about one mile west of the present location, and the school opened with fifteen students and one teacher in the fall of 1887. For many years the instruction was the elementary and secondary level, and the first diploma was awarded in 1905.

The school was moved to its present location in Pembroke, the center of the Indian community, in 1909. The General Assembly changed the name of the institution in 1911 to the Indian Normal School of Robeson County, and again in 1913 to the Cherokee Indian Normal School of Robeson County. In 1926 the Board of Trustees added a two-year normal program beyond high school, and phased out elementary instruction. The first ten diplomas were awarded in 1928, when the state accredited the school as a "standard normal school."

Additional college classes were offered beginning in 1931, and in 1939 a fourth year was added with the first degrees conferred in 1940. In recognition of its new status, the General Assembly changed the name of the school in 1941 to Pembroke State College for Indians. Until 1953 it was the only state-supported four-year college for Indians in the nation. The scope of the institution was widened in 1942 when non-teaching baccalaureate degrees were added, and in 1945 when enrollment, previously limited to the Indians of Robeson County, was opened to people from all federally-recognized Indian groups. A few years later, in 1949, the General Assembly shortened the name to Pembroke State College.

The Board of Trustees approved the admission of White students up to forty percent of the total enrollment in 1953 and, following the Supreme Court's school desegregation decision, opened the College to all qualified applicants without regard to race in 1954. Growth of over five hundred percent followed during the next eight years. In 1969 the General Assembly changed the name again to Pembroke State University, and made the institution a regional university. Such universities were authorized "to provide undergraduate and graduate instruction in liberal arts, fine arts, and science, and in the learned professions, including teaching" and to "provide other graduate and undergraduate programs of instruction as are deemed necessary to meet the needs of their constituencies and of the State."

Two years later, in 1971, the General Assembly established the sixteen-campus University of North Carolina with Pembroke State University as one of the constituent institutions. The new structure was under the control of the Board of Governors which was to coordinate the system of higher education, improve its quality, and encourage economical use of the state's resources. The Board of Governors approved the initiation of master's programs in professional education by Pembroke State University in 1978, as well as several new undergraduate programs. Since that time additional baccalaureate and master's level programs have been approved, including an M.S. in Administrative Studies.

Pembroke State University celebrated its centennial in 1987.

MISSION OF THE UNIVERSITY

Pembroke State University, as a constituent institution of The University of North Carolina, is committed to academic excellence in a balanced program of teaching, research and service. Student engagement with a faculty dedicated to sound, vigorous teaching and to dynamic contributions in their academic disciplines enables Pembroke State University graduates to perform with distinction within and beyond the region.

Founded in 1887 as an institution for the education of American Indians, Pembroke State University will continue to affirm the unique strength of its culturally diverse student body, community and region. The interaction within and among these groups fosters social consciousness and sensitivity to the rights and views of others, encouraging appreciation of different cultures in a global perspective.

Through its commitment to education as a lifelong experience, the University seeks to enhance and enrich the intellectual, economic, social, cultural and political life of the region.

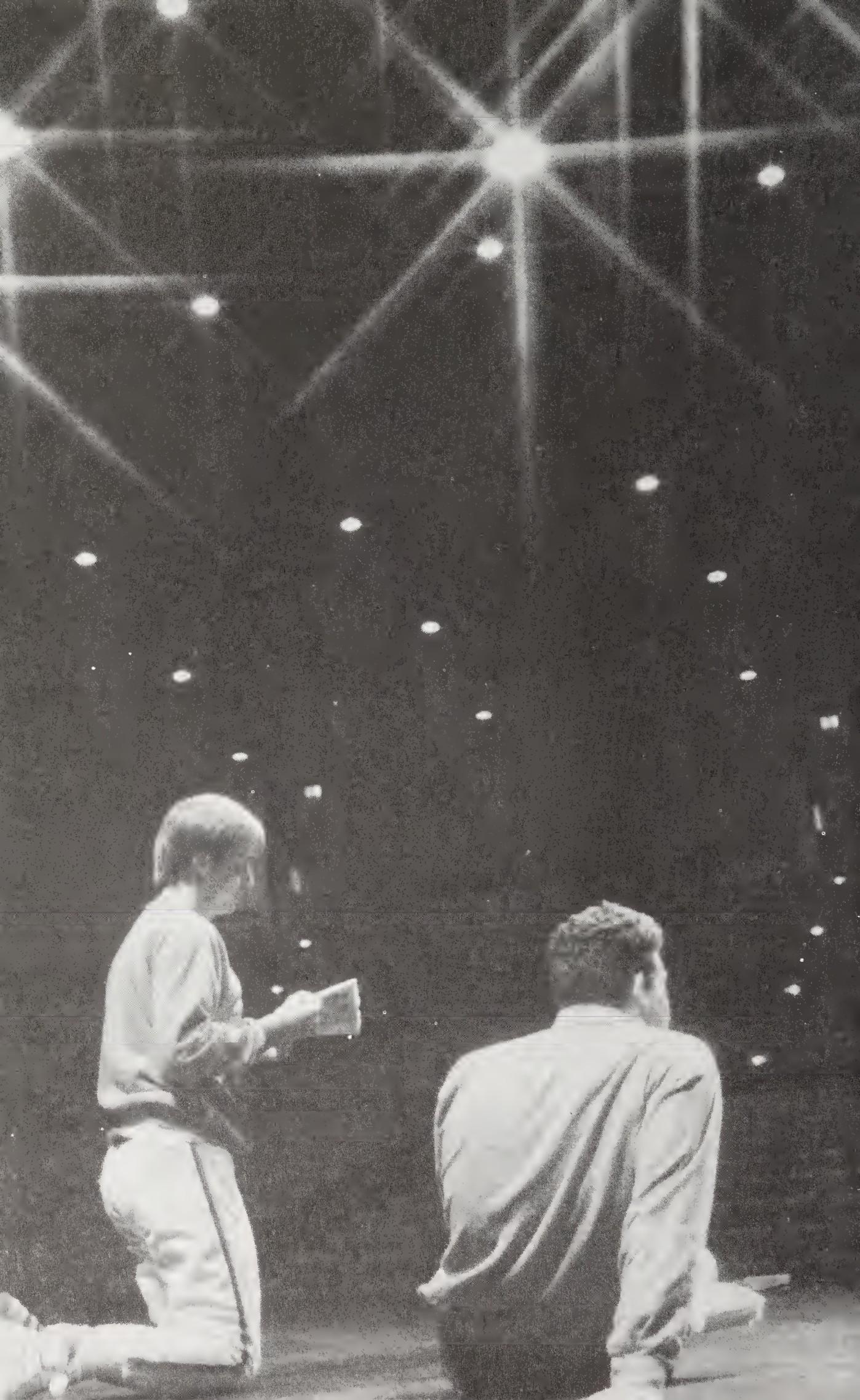
In support of this mission, Pembroke State University is committed:

1. To maintain an environment of free inquiry in which a dynamic faculty enjoy teaching and research and in which students learn and experience growth.
2. To ensure quality academic programs and learning opportunities for the liberal arts, in preparation for diverse professions, and for service to the region.
3. To encourage and support meaningful faculty research and development.
4. To recruit and retain students capable of achieving academic and professional success and of enriching the intellectual, cultural and social community of the University.
5. To provide and support extra-curricular and student life activities and facilities designed to enrich the educational experience of residential and commuter students, enhance the image of the University, and serve the region.
6. To provide ways by which the life of the region can benefit the educational experience of the University and be enhanced by the University.
7. To install in Pembroke State University students a continuing appreciation for diverse cultures and an active concern for the well-being of others.
8. To reflect a commitment to academic and scholarly excellence, to the University's rich heritage, and to enhancement of the immediate and larger region.

FACULTY SENATE

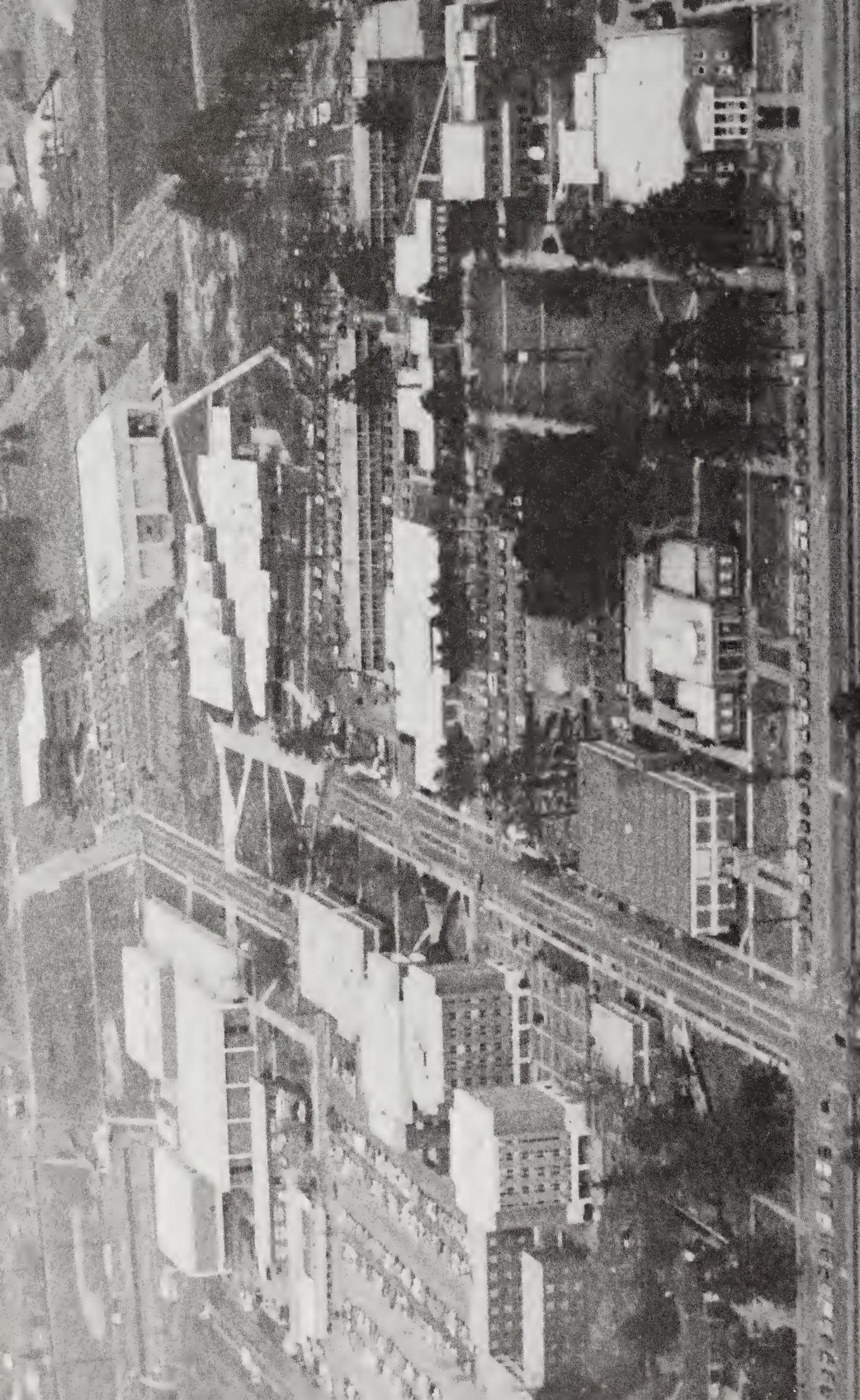
The Faculty Senate is the primary vehicle of faculty governance at Pembroke State University. The Faculty Senate is an organization of faculty members who have been elected by the Faculty at large, or by the Faculty of one of five divisions: Arts, Education, Letters, Natural Science and Mathematics, and Social and Behavioral Sciences. The Senate is organized into three standing committees. These are the Faculty and Institutional Affairs Committee, the Student Affairs Committee, and the Academic Affairs Committee. Each committee also has subcommittees. Membership on the subcommittees is not limited to members of the Senate, but is open to all faculty members. The Faculty, through the Senate, is involved in the governance of the total University and is the principal academic policy-making body of the University.





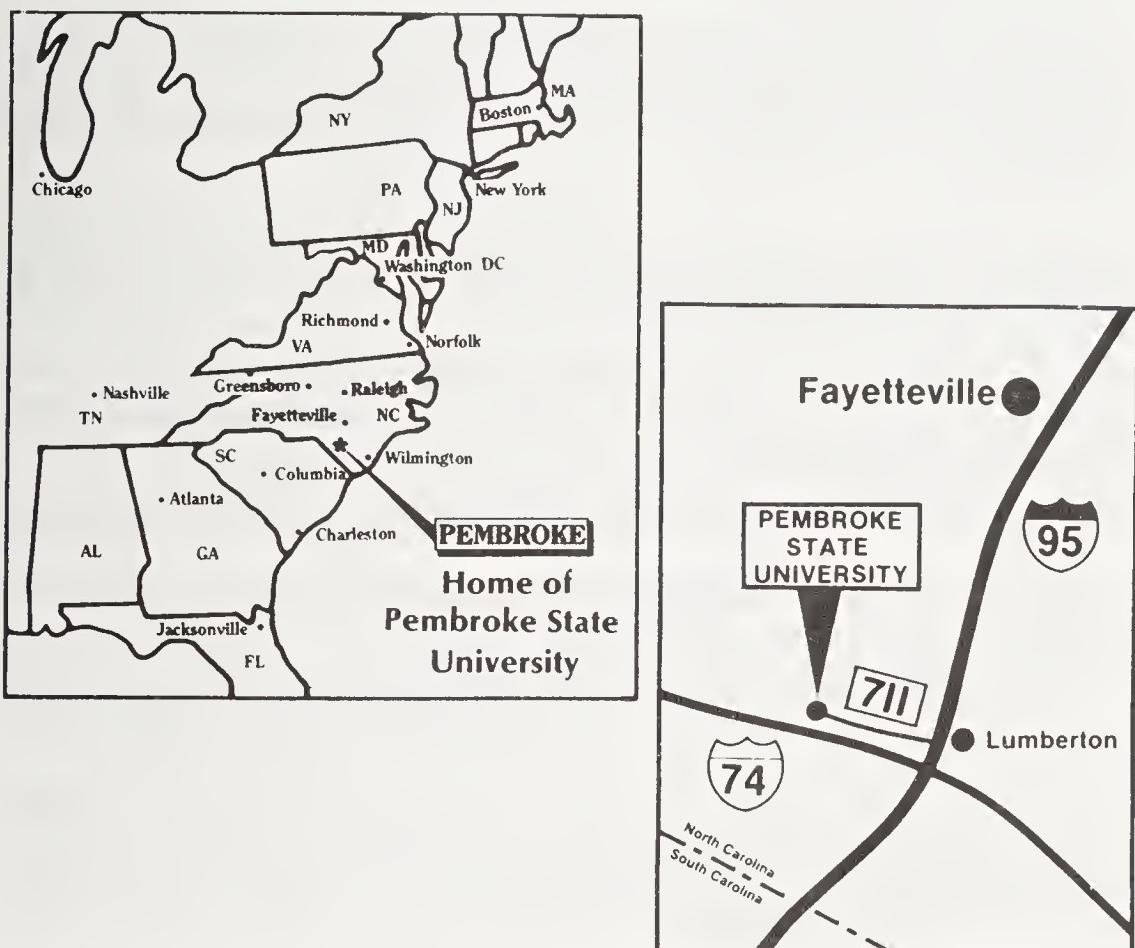
PEMBROKE
STATE UNIVERSITY

GENERAL INFORMATION



LOCATION

Pembroke State University occupies 108 acres located along the western edge of the town of Pembroke in Robeson County, North Carolina. It is easily accessible by automobile, being only ten miles from Interstate 95 and two miles from U.S. 74. Commercial airline service is available at the Fayetteville Municipal Airport, Grannis Field, which is approximately 30 miles from the campus.



BUILDINGS AND GROUNDS

The Old Main Building (1923) was destroyed by fire in 1973 and restored in 1979. The first floor houses the Media Center, the Television Station (WPSU) and the Native American Resources Center (described below). The second floor provides classroom and office space for the American Indian Studies program, Economic Development, Personnel, Public Information, Institutional Research, Institutional Advancement, Alumni Affairs, and "Strike at the Wind," an outdoor drama performed each summer.

Sampson Hall (1949) houses the university administration offices. It was named for Oscar R. Sampson, a long-time chairman of the University Board of Trustees.

Locklear Hall (1950), named for Anderson Locklear, a leading educator of Robeson County, houses the offices, classrooms, and studios of the Art department.

Moore Hall (1951) contains a 216-seat auditorium, classrooms, offices, a library, and studios used by the Music department. This building was named for Reverend W.L. Moore, the first teacher of the Indian Normal School at Pembroke.

The Chancellor's Residence (1952) was fully renovated and enlarged in 1976. It is located on the western side of the campus.

The Admissions Building (1965) has been recently renovated.

The D.F. Lowry Building (1965) contains the University Bookstore, Continuing Education and Summer Session, Upward Bound and Special Programs, ROTC, and the Print Shop. It was named for Rev. D.F. Lowry, first graduate from the Indian Normal School.

Jacobs Hall (1961) is a men's dormitory which has a capacity of 134 students. This dormitory was named for Reverend L.W. Jacobs, who served as chairman of the Board of Trustees for thirty years.

Wellons Hall (1965) is a men's dormitory with a capacity of 100 students. This structure was named for Dr. Ralph D. Wellons, who served as President of the University from 1942 through 1956.

West Hall (1965) is a men's dormitory which offers accommodations to 200 students.

The Music Annex (1965), attached to Moore Hall, contains facilities for the university band and chorus as well as practice rooms.

The University Infirmary (1967) contains examination and treatment rooms, offices for the University Nurse and Physician, and 22 beds for treatment of inpatients.

The Mary Livermore Library (1967) currently houses approximately 200,000 books 1,000 periodicals, and the University Archives. The library receives relevant U.S. government documents on a depository basis. It was named in honor of the late Mary Livermore, long-time religion professor at PSU.

The Herbert G. Oxendine Science Building (1967) provides classrooms, laboratories, computer rooms, and offices for the Biology, Physical Science, and Mathematics departments. It was named in honor of the late Dr. Herbert G. Oxendine, who served as Academic Dean. An addition (1990) also houses the Computer Center.

The Business Administration Building (1969) provides classrooms and offices for the departments of Business Administration and Economics; Sociology, Social work, and Criminal Justice; and Geology and Geography. It also houses the College Opportunity Program.

The Environmental Building (1969) is a one-story brick structure located behind the Science Building. It is used for animal laboratory experiments.

The Walter J. Pinchbeck Maintenance Building (1978) was named in honor of the late Walter J. Pinchbeck, long-time PSU superintendent of buildings and grounds. It contains shops, offices, and garage facilities for university vehicles.

The Central Receiving Warehouse is located beside the Maintenance Buildings. All deliveries of supplies and materials are received there. The Department of Purchasing Services is located in this building.

Mary Irwin Belk Hall (1970) is a women's dormitory which offers accommodations to 200 students. It is named in honor of the late Mary Irwin Belk of Charlotte.

North Hall (1972) is a women's dormitory which houses 200 students.

The English E. Jones Health and Physical Education Center (1972) has two gymnasiums, a natatorium which includes a six-lane swimming pool and diving tank, faculty offices, classrooms, a physiology laboratory, and a small lecture hall which seats 120. The building was named in honor of the late chancellor, Dr. English E. Jones, chief executive of PSU from 1962 to 1979.

The Givens Performing Arts Center (1975) houses the dramatic arts and provides an ultamodern amphitheater-style auditorium which will accommodate any performing arts production and which will comfortably seat an audience of seventeen hundred. It was named in honor of Dr. Paul R. Givens, chancellor of PSU from 1979 to 1989.

The Educational Center (1976) contains classrooms, offices, and curriculum and reading laboratories for departments of Education, Psychology, and Philosophy and Religion. The building houses the Graduate Office and the Office of Teacher Education Admissions.

The Classroom Building North (1980) is located on the north side of campus and provides classroom and office space for the departments of Communicative Arts, History, and Political Science. It also houses a word processing laboratory, the CMA library, the yearbook, and the student newspaper.

The James B. Chavis University Center (1976) houses student and faculty lounges, post office, cafeteria, snack bar, bowling alley, and TV/game areas. On the second floor are the Counseling and Testing Center, Career Planning and Placement Center, and Student Government offices. The building was named in honor of the present PSU vice chancellor for student affairs, Dr. James B. Chavis.

SUMMER PROGRAM

The University offers two five-week terms and a three-week intra-session. Special workshops and institutes enrich the regular summer program and visiting specialists augment the regular faculty when the need arises.

Through many curricular and extra-curricular activities, the summer session provides special opportunities for teachers and others who are free for summer study. Many courses and workshops are open to individuals not seeking a university degree but interested in gaining personal or professional knowledge.

A student entering Pembroke State University for the first time as a beginning freshman, a transfer student, or a student who is returning to the University after an absence of one-semester or more must meet all requirements for admission.

Transient students, students who are regularly enrolled at another institution of higher education and who wish to take courses at Pembroke State University during the Summer Session for transfer to their home institution, must submit a form available from the Summer Session Office. This form must show that they are in good standing at their home institution and have their Dean's or Registrar's permission to enroll at Pembroke State University. Admission to the Summer Session *does not constitute admission to the University.*

In-service teachers who wish to attend the Summer Session for certificate renewal or other purposes must submit an application. The application form and *Summer Session Bulletin* may be obtained from the Summer Session Office.

CONTINUING EDUCATION

Evening Classes: Pembroke State University offers a number of evening classes for individuals who wish to earn degrees as full-time or part-time students. Degree-seeking students should contact department chairman for assistance in working out plans to fulfill degree requirements.

Students admitted for degree-credit course work in the evening must meet minimum University requirements for admission. Applicants meeting minimum University requirements will be admitted as special, part-time or regular students. (See Admissions section of the catalog).

Extension Courses: Extension instruction leads to earned credit toward a degree offered at Pembroke State University but is offered outside the regular session.

Short Courses, Institutes, and Conferences: In addition to helping students meet certificate requirements, the University meets special needs of students through this program and continues the tradition of providing education to all segments of the population.

The University awards Continuing Education Units (CEUs) to participants in qualified programs. Continuing Education Units are a part of a nationwide recording system to provide a uniform measure of attainment in non-credit educational programs. One CEU at Pembroke is defined as "ten contact hours of participation in an organized continuing education experience under responsible, capable direction, and qualified instruction."

LIBRARY SERVICES

The Mary Livermore Library currently houses approximately 200,000 books and over 1,000 periodical subscriptions and newspaper subscriptions, receives relevant U.S. government documents, and North Carolina State documents on a depository basis, and contains the University Archives. The staff offers students such services as reference and information services, instruction in library use, in-depth consultation on research projects, data base searching, interlibrary loan, orientation tours, recreational reading, computer laboratory and copying facilities. The library is a chief information center for the University and has an online catalog and access to those

of other UNC system libraries. The library was named in honor of the late Mary Livermore, long-time religion professor at PSU.

Specialized libraries, featuring resources appropriate to particular programs and departments, are found in several locations. In the Education Center, the Department of Education maintains a Curriculum Laboratory and a Test Review/Resource Center. In Classroom Building North, the Department of Communicative Arts maintains a library of books, journals, and media resources for English Education and foreign languages. Moore Hall houses a Music Library featuring recordings, scores, and listening facilities.

ACADEMIC COMPUTING RESOURCES

Pembroke State University recognizes the importance of computer skills. Although no specific computer courses are required, students have many opportunities to gain computer proficiency. In freshman composition, most students receive a word-processing program and learn how to use it for writing papers. All Teacher Education programs require basic computer skills. Students majoring in Business Administration are required to take BUS 109, Business Uses of the Computer. In addition, most departments expect students to use computer software in some of their courses.

Pembroke State University provides its students with a wealth of computer resources. Each classroom building houses one or more microcomputer laboratories, and additional computers are located in the Mary Livermore Library, the Computer Center, and the D.F. Lowry building. Several laboratories are available for evening and weekend use. MS-DOS and Apple 2e are the most common microcomputers, some departments have specialized computers, and MacIntosh and mainframe computing is available in the Computer Center.

STUDENT SUPPORT PROGRAMS

Student Support Programs at Pembroke State University are designed to help meet the academic, cultural, and financial needs of participants in order that they may achieve a high success rate while in school. The four projects included in Special Programs are Upward Bound, Student Support Services, Health Careers Academic Advancement Program (HCAAP), and Clinical Work-Study Summer Health Program (CWSSHP).

Upward Bound is funded to serve seventy-five Robeson County high school students who have the academic potential to become first-generation college students but lack certain skills or motivation to demonstrate that talent. The program consists of an academic and a summer phase. During the academic phase, students are encouraged to achieve their educational potential with the help of weekly tutoring sessions in their high school courses. Assistance is also provided for seniors in completing college and financial-aid applications. During the summer phase, participants live on campus for six weeks and attend a daily schedule of classes in the mornings and afternoons. This summer component familiarizes students with college life motivating students and developing and enriching their basic skills. Recreational and human development activities are also incorporated into the schedule.

Student Support Services is funded to serve one hundred seventy-five college students at Pembroke State University. The program offers the following services:

- instruction in University Orientation
- tutoring on a one-to-one or a small group basis in all majors offered at the University
- reading skills instruction in increasing vocabulary, comprehension, and rate
- study skills assistance in developing techniques of note-taking and test-taking
- assistance in applying for financial aid and scholarship programs
- guidance in academic, vocational, and personal/social concerns
- opportunities to participate in cultural activities
- access to reference and resource materials, which include magazines, paperbacks, and a file on current events.

The Health Careers Program and the Clinical Work Study Summer Health Program are funded through the North Carolina Health Manpower Development Program. The main objective of these programs is to recruit minority students into academic health professions through academic advisement, career counseling, and enrichment activities. The Health Careers Program also provides clinical work training through summer employment with local health care agencies in Robeson and Scotland Counties. Students are employed in jobs related to their health care interests.

Students interested in Special Programs should visit the office in the D.F. Lowry building or call 521-4214 ext. 276 for information.

ADVISEMENT AND RETENTION

Advisement and Retention focuses University resources to help individual students complete their work at Pembroke State University.

Through the *Early Alert Program*, a professor or staff member may recommend that a student get help with a problem that threatens the student's academic success. Continued absence from class is usually the first and most significant indication that a student should be referred. The Office of Advisement and Retention works with the student to determine appropriate help and draws on existing programs and offices to find a workable solution.

Through the *Student Advocacy Program*, any student who has become confused or frustrated by university practices may request that the Office of Advisement and Retention act as intermediary, locate assistance or information, or provide academic advisement.

COMPUTER CENTER

The Computer Center is located on the first floor annex of the Science Building. With a staff of 12 full-time employees, the Center handles the academic and administrative computing for the University. The Center houses a VAX 8250, a VAX 6310, a Data General S/140, and one of the campus microcomputer labs. With our connection to LINC NET, which is a statewide data network, we have access to a number of

other computer installations around the state. There are also desktop publishing and optical scanner capabilities within the Center for faculty and staff that have needs in these areas.

NATIVE AMERICAN RESOURCES CENTER

The Native American Resources Center, on the first floor of the Old Main building, offers a rich collection of authentic Indian artifacts, handicrafts, art, books, cassettes, record albums, and filmstrips about the Native Americans, with emphasis on the Lumbee Indians of Roberson County. An exciting variety of exhibits is on display, including prehistoric tools and weapons, 19th century Lumbee household and farm equipment, and contemporary Indian art. Indian cultures from all sections of the United States are represented by characteristic artifacts.

WPSU TELEVISION STATION

Pembroke State University operates WPSU-TV, a cable casting facility that serves Pembroke, Lumberton, Charlotte, Greensboro, Rockingham, Fayetteville, Hope Mills, and Spring Lake. WPSU-TV is operated completely by university students and also supports the academic program in Broadcasting by providing a working laboratory for practical experience.



PEMBROKE
STATE UNIVERSITY

THE ADMISSIONS PROCESS

UNDERGRADUATE ADMISSIONS

Pembroke State University welcomes applications from persons who have earned a high school diploma, or its equivalent, and whose academic preparation and aptitude predict success in higher education. The University's Office of Admissions processes and individually evaluates all applications that are submitted. No single consideration dictates decisions on applications; instead, numerous factors, and their relationships to one another enter into such decisions. All applicants demonstrating that they can profit from and succeed in undergraduate studies qualify for admission to the University.

Any student who supplies false or misleading information or conceals pertinent facts in order to secure admission to Pembroke State University may be denied admission or, if admitted, may be immediately dismissed from the University. Such a student may be ineligible to receive any credit any credit from Pembroke State University.

Qualified applicants are admitted in the following categories:

1. Entering Freshmen
2. New Transfer Students
3. Re-Enrolling Students
4. Special Students
5. Transient Students
6. Foreign Students
7. Auditors

Students may enter at the beginning of any semester or summer term. The application deadline for undergraduate admissions for the fall semester is July 15; the deadline for the spring is December 1. Also the deadlines for summer terms I and II are May 15 and June 15 respectively.

Requests for general information, brochures, catalogues, admissions video and application forms should be addressed to the Director of Admissions. Completed application forms and all supporting documents such as test scores, official high school, college, and university transcripts, and a non-refundable \$15.00 application fee, should be forwarded to the Office of Admissions. Prospective students, parents, and student organizations may request the temporary use of our admissions video by contacting the Office of Admissions.

All new students, and all re-enrolling students who have been out of Pembroke State University for one year, who plan to take 7 or more credit hours during their initial semester are required to complete a medical history form before registering for classes. This form may be obtained from the Office of Admissions and should be returned to the University Infirmary prior to registering for classes.

ENTERING FRESHMEN

Applicants for the freshmen class must be graduates of an approved or accredited high school. Non-graduates must possess a high school equivalency certificate and present evidence of maturity and the potential to achieve success in a university environment.

High School transcripts and SAT or ACT scores must be received prior to a determination of an applicant's status. A predicted grade point average is computed on the basis of the high school class rank and the SAT or ACT scores for each applicant. The Admissions Policy requires one of three possible decisions for each applicant:

1. Applicants who have satisfactory high school records and appropriate SAT or ACT test scores and who meet the minimum admissions requirements, including course selection and class rank, will be accepted for admission.
2. Applicants whose records and test scores do not meet the minimum requirements will be denied admission.
3. Applicants whose records and/or test scores meet, but not all, of Pembroke State University's regular admission standards may be offered admission to the University's summer College Opportunity Program. (A detailed description of this program is on page 316.)

MINIMUM ADMISSIONS REQUIREMENTS AT THE 16 CAMPUSES OF THE UNIVERSITY OF NORTH CAROLINA

High school graduates from the *classes of 1988 and 1989*, who *otherwise meet the institution's own admissions requirements* may be admitted, provided they have successfully completed in grades 9-12:

In *English*, four courses units emphasizing grammar, composition and literature;

In *mathematics*, two course units including *algebra I* and one additional course unit;

In *science*, two course units including *one physical science* and *biological science*; and

In *social studies*, two course units including one unit in *U.S. history*, but an applicant who does not have the unit in U.S. history may be admitted on the condition that at least three semester hours in that subject will be passed by the end of the sophomore year.

For the *class of 1990 and beyond*, the following courses will be required for admission, in addition to an institution's own specific requirements:

In *English*, four course units emphasizing grammar, composition and literature;

In *mathematics*, three course units including *algebra I*, *algebra II*, and *geometry*, or a higher level mathematics course for which algebra II is a prerequisite;

In *science*, three course including

- at least one unit in a life or *biological science* (for example, biology)
- at least one unit in a *physical science* (for example, physical science, chemistry and physics) and
- at least one *laboratory course*;

and

In *social studies*, two courses units including one unit in *U.S. history*.

In addition, it is recommended that prospective students; complete at least two course units in *one foreign language*, and take *one foreign language course unit and one mathematics* course unit in the twelfth grade.

NEW TRANSFER STUDENTS

1. Students seeking to transfer from other collegiate institutions must furnish an official transcript from each institution attended. The transcripts must indicate a cumulative "C" (2.0) average on all work attempted prior to entering Pembroke State. Courses satisfactorily completed in regionally accredited institutions are evaluated in terms of courses offered and curriculum selected at Pembroke State.
2. An official high school transcript is required.
3. The student must attain at least a grade of "C" (2.0) in a course in order for that course to be allowed for transfer credit at Pembroke State.
4. Transfer applicants must be immediately eligible to return to the last institution attended.
5. Transfer applicants who graduated from high school in the year 1988 and beyond must meet the minimum course requirements outlined in the previous sections. (See Minimum Admission Requirements) For those students who do not meet these requirements, 6 semester hours must be earned before admission at an accredited college or university in the following areas: English, Math, Science, Social Science and electives.
6. Each transfer applicant must submit a completed health record after academic approval has been received by the applicant.
7. All transfer students entering PSU must attend a transfer orientation designed to acquaint the student with the academic, co-curricular, and social life of the University and to gather information to assist in the student's academic advancement.

Because of differing admission requirements, transfer applicants who are candidates for teacher certification degrees should refer to the admission requirements stipulated by the Department of Education; see page 71.

NOTE: Prospective students who have attended an accredited college but who have earned less than 30 semester hours of transferable credit must meet both freshman and transfer admission requirements. This means that in addition to following the procedures for freshmen, they must present a transcript showing an overall 2.00 average on all college work. In addition, such applicants must be eligible to return to the institution last attended.

The classification of transfer students (freshman, sophomore, junior, or senior) is determined by the number of transfer credit hours accepted by Pembroke State University. The maximum transfer credit hours accepted from a two-year institution is 60 semester hours, and no student who has attained junior status will be allowed to transfer credit for any college work completed after that time in a two-year institution. Students attending a four-year institution prior to attending a two-year institution should consult the Office of Admissions regarding credits allowed. Although there is no limit

on credit hours accepted from a four-year institution, a 30-hour residency is required to graduate from Pembroke State University.

300-400 level courses from two-year community colleges will receive elective credit only. Technical school course credit will not transfer, unless the school and PSU have an agreement to honor such credits.

RE-ENROLLING STUDENTS

Students who have interrupted their course of study for at least one semester must apply for readmission through the Office of Admissions. Transcripts of any academic work completed in the interim at any other institution must be provided prior to approval for readmission. Students who have left the University as a result of an academic deficiency should review the policy on page 58.

SPECIAL STUDENTS

Unclassified

Applicants not enrolled in degree programs at other institutions who wish to complete courses at Pembroke State University for personal or professional enrichment may qualify for admission as special students. Such applicants must complete an application for admissions and submit the appropriate transcripts or documentation required. Students in this category cannot enroll for more than six (6) hours a semester. Continuation of enrollment in additional courses requires the approval of the Office of Admissions. These students enroll without entering degree programs, and they may not later become degree candidates unless they have been admitted as regular students. Students under academic suspension from any university are not eligible to enroll as special students.

Teacher Certification Only

Those individuals who are already have a baccalaureate degree may be admitted to earn teacher certification. In addition to applying to Pembroke State University through the Admissions Office, such individuals must also contact the Director of Teacher Education to design an individualized program. All teacher certification candidates must meet the admission and retention standards of the Teachers Education Program and the National Teachers Examination requirements established by the State Board of Education. See p. 26 for further information.

Non-Traditional

Pembroke State University adopted a policy in March, 1974, for students who have graduated from high school and are at least 21 years of age. These students may enter the University without the requirement of standardized admissions tests such as the Scholastic Aptitude Test (SAT) or American College Test (ACT). The provision allows these applicants to be admitted as non-traditional students. Such applicants must complete the application for admissions and submit the necessary transcripts or documentation required.

Second Degree

Applicants who wish to enroll at the university to complete a second undergraduate degree must complete the application for admissions, submit a \$15.00 application fee and provide transcripts for all attempted college credit. (For more information, see appropriate page number).

TRANSIENT STUDENTS

Transient Students are students enrolled elsewhere who qualify to study for one semester or summer at Pembroke State University and to transfer credits earned to the institutions at which they are pursuing degrees. To gain admission as Transient

Students, applicants must be in good standing at and be eligible to return to their parent institutions. They must also have permission from those institutions to schedule study at Pembroke State University. Transient Students do not pay an application fee.

FOREIGN STUDENTS

Applicants from non-English speaking nations must provide evidence of proficiency in the English language with their applications for admission to Pembroke State University. Scores on the Test of English as a Foreign language (TOEFL) or the Michigan Test are required; no applications for admission are complete without such scores, and no Form 1-20 will be authorized without them. For students born in non-English speaking nations but educated in senior high schools in the United States, scores on the SAT or ACT can substitute for scores on the TOEFL or the Michigan Test. Each student must submit official proof of financial support and an English translation of all transcripts. It is preferred that all documents be sent to the admissions office six months prior to date of entry.

GRADUATE ADMISSIONS

Inquiries concerning the graduate studies admissions should be directed to the Director of Graduate Studies. Admissions requirements are stated in the **Graduate Programs Section** of this catalog.

BACHELOR OF SCIENCE IN APPLIED SCIENCE PROGRAM

Students who hold an Associate in Applied Science Degree from a community college or technical institute in Business Administration are eligible for admission to this program. The program has four major components: (1) the Associate in Applied Science Degree, (2) the basic studies curriculum of 50 semester hours, (3) an individualized program of study consisting of 15 semester hours at Pembroke State University leading to the Bachelor of Science in Applied Science Degree and (4) 3 hours of free electives. The Associate in Applied Science Degree is required for admission to the program and would constitute the first two years of work toward the Bachelor of Science Degree. The Basic Studies Program is required of all Pembroke State University graduates and is designed for each student in terms of his prior experience and achievement. (See p. 77.) The individualized program of study beyond basic studies is based on the student's associate in applied science degree program and is designed to: (1) give the student additional depth in his applied science and related study areas, (2) provide him with the opportunity to explore other study areas, and (3) assist him in the realization of his capacities, interests, and desires. For further information, see Business Administration programs.

Students who plan to pursue a graduate degree should consult the Chairman of the Department of Business Administration before undertaking any work in this program.

DEGREE COMPLETION PROGRAM FOR MILITARY PERSONNEL

Pembroke State University provides educational programs for veterans, active military personnel, and retired military personnel who wish to continue their career development in higher education and to complete an educational program leading to a college degree.

In recognition of the educational experience gained by military personnel in their regular training, in service school courses, in USAFI or DANES courses, and through the College Level Examination Program (CLEP), Pembroke State University will accept transfer credit toward a Bachelor of Arts or Bachelor of Science degree.

1. Men or women who have served one or more years in the armed services will be awarded two semester hours credit for each year of service, up to 12 semester hours of credit, as elective credit.
2. Credit may be awarded for service school courses comparable to those offered by Pembroke State University. The amount of credit granted will be according to the recommendations of the American Council on Education as listed in the most recent edition of *A Guide to the Evaluation of Educational Experiences in the Armed Services*.
3. Credit may be granted for work completed with an acceptable rating in USAFI courses that are parallel to courses offered at Pembroke State University provided a transcript of the work is sent directly to the Director of Admissions.
4. Credit may be earned through the College Level Examination Program (CLEP).

In addition to the special provision for granting credit to military personnel for their educational experience, the University will accept transfer credit toward a Bachelor's degree:

1. All transferable work completed in residence at accredited senior institutions of higher education provided the student has an *overall cumulative quality point average* of 2.0;
2. Up to 60 semester hours of work completed in a two-year college provided the student has an *overall cumulative quality point average* of 2.0;
3. Up to 24 semester hours of work completed through correspondence and/or extension (with no more than 12 semester hours by correspondence) courses. Work completed in courses offered by Pembroke State University's Continuing Education Division at cooperating technical institutes is not counted as extension work.

COLLEGE LEVEL EXAMINATION PROGRAM

Incoming freshmen may earn up to thirty semester hours of Basic Studies credit through the College Level Examination Program (CLEP) in accordance with the following schedule.

CLEP General Examination	Basic Studies Credit
1. Chemistry	Four semester hours credit for CHM 100: General Chemistry; and four semester hours credit for CHM 101: General Chemistry.
2. English Composition	Three semester hours credit for CMA 105: Composition I; and three semester hours credit for CMA 106: Composition II.
3. Humanities	Three semester hours credit for Art 205: History and Appreciation of Art; and three semester hours credit for Music 230: Introduction to Music Appreciation.

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|----------------------------|--|
| 4. Mathematics | Three semester hours credit for Mathematics 105: Introduction to College Mathematics; and three semester hours credit for Mathematics 107: College Algebra. |
| 5. Natural Sciences | Three semester hours credit for Biology 100: Principles of Biology; and three semester hours credit for Physical Science 110: Physical Science 1. |
| 6. Social Sciences-History | Three semester hours credit for History 126: Introduction to Early European Civilization; and three semester hours credit for History 127: Modern European Civilization. |

A Departmental Test may have to be passed.

Entering freshmen may obtain lists of CLEP testing centers from their high school counselors or by contacting the College Board by writing or calling:

CLEP
CN 6600
Princeton, N.J. 08541-6600
Telephone (609) 921-9000, EXT 8420

ADVANCED PLACEMENT

Pembroke State University participates in the Advanced Placement program of the College Entrance Examination Board. Credit may be earned in various subject matter areas. For information concerning score requirements, advanced placement, and credit hour awards, contact the Admissions Office of Pembroke State University.

For general information about Advanced Placement programs, call 606-921-9000, Ext. 8300.

PART-TIME STUDENTS

A part-time student is a student who is regularly admitted to Pembroke State University and is registered for less than 12 semester hours of course work in a Fall or Spring Semester.

Students in a part-time status taking seven or more semester hours are charged all fees; activity and tuition charge is based on the number of semester hours taken. Part-time students taking four to six semester hours will pay a reduced student activity fee.

AUDITING

All persons, whether regularly enrolled in the University or not, who desire to audit a course must secure the permission of the instructor and the Office for Academic Affairs. Audits may not be added to a student's schedule after the last day to add a class. The fee charged for auditing a course will be the same as if the course were taken for credit.

For non-matriculating students, a copy of the receipt of payment from the Business Office must be filed with the instructor at the beginning of the course. Students who are regularly enrolled at the University must file a copy of the permission letter from the Office for Academic Affairs with the instructor at the beginning of the course.

Audited classes are listed on the permanent record and are designated by the letters "AU". Class participation by and requirements of auditors are at the discretion of the instructor.

RESIDENCE STATUS FOR TUITION PURPOSES

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following.

Residence. To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months legal residence means more than simple abode in North Carolina. In particular it means maintaining a domicile (permanent home of indefinite duration) as opposed to "maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education." The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderence (the greater part) of the residentiary information.

Initiative. Being classified a resident for tuition purposes is contingent on the student's seeking such status and providing all information that the institution may require in making the determination.

Parents' Domicile. If an individual, irrespective of age, has living parent(s) or a court-appointed guardian of the person, the domicile of such parent(s) or guardian is, *prima facie*, the domicile of the individual; but this *prima facie* evidence of the individual's domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed *prima facie* evidence of the applicant child's status if the applicant has lived (through not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.

Effect of Marriage. Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance insure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one's spouse are, however, relevant information in determining residentiary intent. Furthermore, if both a husband and his wife are legal residents of North Carolina and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-months requirement for in-state tuition status.

Military Personnel. A North Carolinian who serves outside the State in the armed forces does not lose North Carolina domicile simply by reason of such service. Students from the military may prove retention or establishment of residence by reference, as in other cases, to residentiary acts accompanied by residentiary intent. Military members and dependents may be eligible for an In-State Tuition Waiver. To be considered for this, the student must submit a military residency application.

Grace Period. If a person (1) has been a bona fide legal resident, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state rate for a grace period of twelve months measured from the date on which North Carolina legal residence was lost. If the twelve months ends during an academic term for which the person is enrolled at a State institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence, marking the beginning of the grace period.

Minors. Minors (persons under 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person's degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina "and (2) begins enrollment at an institution of higher education not later than the fall academic term next following completion of education prerequisite to admission at such institution."

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteen birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least 12 months' duration. This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary; however, a person deemed a resident of 12 months duration pursuant to this provision continues to be a legal resident of the State only so long as he or she does not abandon North Carolina domicile.

Lost but Regained Domicile. If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a 12-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual 12-month durational requirement. However, any one person may receive the benefit of this provision only once.

Change of Status. A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which

involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

Transfer Students. When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence status classification for tuition purposes.

COLLEGE OPPORTUNITY PROGRAM

The College Opportunity Program is designed to admit a limited number of students who meet most, but not all, of Pembroke State University's regular admission standards. Students are selected on the basis of high school academic record, scholastic standing in the high school graduating class, SAT or ACT scores, and the recommendation of the high school counselor. The application for admission should be filed as early as possible.

The student enters the College Opportunity Program in the summer for a five-week session including preliminary testing and courses designed for the development of academic skills to prepare him/her for the Fall Semester. The student who successfully completes these summer courses is then eligible to continue the Fall Semester. In the Fall and Spring Semesters, the student is allowed to register for 12 hours of academic courses and 1 hour courses in Orientation and Physical Education. In addition the student meets regularly with the COP advisor for special advisement and counseling. Each student's academic eligibility is reviewed at the end of the Fall Semester and Spring Semester. If he/she meets the academic eligibility requirements listed under "Academic Eligibility" in the college catalog and if he/she has successfully completed the College Opportunity Program requirements, he/she is admitted to the University as a regular student at the end of the Spring Semester.



PEMBROKE
STATE UNIVERSITY

ACADEMIC REGULATIONS

ACADEMIC REGULATIONS

Students are expected to learn the University requirements and regulations which are applicable to them, and are individually responsible for meeting all such requirements and regulations.

Before the close of each semester, the student is expected to discharge all financial obligations to the University. A student may not register for a new semester nor receive a degree, certificate, or transcript until all University bills are paid.

CLASSIFICATION OF STUDENTS

Regular students at Pembroke State University are classified according to the number of semester hours they have earned in keeping with the following table:

- Less than 30 hours-Freshman
- 30 to 59 hours-Sophomore
- 60 to 89 hours-Junior
- 90 hours to graduation-Senior

STUDENT LOAD

All course work counts toward student load whether the student is enrolled for credit or as an auditor at this or another institution.

Full-time students must carry at least 12 semester hours each semester and may carry 18 semester hours; however, 15 semester hours is the normal load. Students who are on the current Dean's List may take a maximum of 21 semester hours.

Summer session students may carry no more than 7 semester hours each summer session term.

GRADING AND ACADEMIC ELIGIBILITY

Grading System

Grade reports are sent to each student at the end of each semester. Mid-term advisory grades may also be sent to some categories of student at the mid-point of the semester.

A letter grade and plus-minus system for evaluating academic performance is used for evaluating all undergraduate students. Each letter grade has a quality point value for each semester hour it represents. The hour and quality points are used in determining a student's grade point average for a semester's work and in averaging grades for all work completed to find a student's cumulative quality point average.

The letter grades and quality points represented by each, as of January 1, 1989, are as follows:

A = 4.0	B- = 2.7	D+ = 1.3	P = 0.0
A- = 3.7	C+ = 2.3	D = 1.0	I- = 0.0
B+ = 3.3	C = 2.0	D- = 0.7	W = 0.0
B = 3.0	C- = 1.7	F = 0.0	AU = 0.0

The "P" grade is earned in designated courses and carries semester hours credit. However, the hours are not counted in quality hours. Quality hours are the hours used in figuring quality point averages.

The "I", or incomplete grade, is given when a student is unable to complete required work because of an unavoidable circumstance such as illness. It is not to be given to enable a student to do additional work to improve a grade. An incomplete must be removed within one semester (excluding summer term) or it will automatically be converted to a grade of "F" by the University Registrar. In determination of quality hours and quality point averages, an "I" is counted as an "F" until it is removed.

When a student withdraws from a course during the designated drop-add period, the "W" grade is assigned. The "W" grade is also used after the drop-add period when a student obtains the signature of his instructor to withdraw from a course prior to and including the last day of the sixth week of the semester. An "F" is given when a student withdraws from a course(s) beginning the first day of the seventh week of the semester. When a student receives a "W" grade, the grade is recorded, but the semester hours attempted are not counted as quality hours.

Audited classes are listed on the permanent record. They are designated by the letters "AU." The AU's and W's will be listed as attempted hours, but not as quality hours for figuring quality point averages.

QUALITY POINT AVERAGE AND SCHOLASTIC STANDING

Scholastic standing at Pembroke State University is based on the quality point average. To figure quality point average, multiply the number of quality hours (attempted hours minus P credits, AU's and W's) assigned to each course by the number of quality points received, add the quality points received for all courses, and divide by the number of quality hours.

Example:

Course	Final Course Grade	Quality Hours	x	Quality Points	=	Quality Points Earned
Course A	C+	3	x	2.3	=	6.9
Course B	B-	3	x	2.7	=	8.1
Course C	A	1	x	4.0	=	4.0
Course D	P	0*	x	0.0	=	0.0
Course E	F	1	x	0.0	=	0.0
Course F	B	3	x	3.0	=	9.0
Course G	A-	3	x	3.7	=	11.1
Course H	I	2	x	0.0	=	0.0
<hr/>						
Total Quality Hrs.		16		Total Quality Pts.		39.1
Quality Point Average = $39.1 \div 16 = 2.44$						

*A grade of P counts as hours earned but not as quality hours and is computed as 0 hours in figuring quality point averages.

A cumulative quality point average is obtained by including in the quality point average calculation the quality hours and quality points received from Pembroke State University as well as the quality and quality points from all other institutions of higher education. For this purpose, only the most recent grade of a repeated course and only the semester hours and quality points corresponding to the most recent grade are used.

MINIMUM SCHOLASTIC REQUIREMENTS

To indicate to a student his/her scholastic standing, four categories have been established: good standing, above GPA minimum (but below 2.00), warning/probation, and suspension. Suspension means a minimum of two semesters separation from the University to allow more maturation in those attributes that enhance the student's academic ability.

Required levels of academic achievement increase progressively over the approximately four years leading to graduation. This is in recognition of the adjustment period of transition from high school to college level, which is sometimes difficult. The cumulative grade point averages required are as follows:

Semester Hours Attempted	Minimum Overall Cumulative Quality Point Average
30	1.375
45	1.500
60	1.625
75	1.750
90	1.875
105	2.000

A student who falls below the specified average for the number of quality hours (including transfer quality hours) will be placed on warning/probation and restricted to enrollment of no more than 13 semester hours. A student who has been warned and who fails to bring the cumulative average up to the required minimum by the end of the following semester will be suspended; however, a student who averages at least 2.00 for the warning/probationary semester will be continued on probation even though the cumulative average does not reach the minimum.

After at least two semesters of academic suspension for failure to meet the minimum requirements of quality point ratio, a student may apply for readmission. If readmitted, the student must then meet the minimum quality point ratio requirements at PSU on all quality hours or earn a semester quality point average of 2.0.

Regulations concerning academic eligibility are subject to constant revision and change. In the event of a change all students will conform to the newer regulations.

GRADUATION WITH HONORS

Any senior is eligible for honors who, at the beginning of the last semester of his senior year, has earned at least 15 semester hours of credit in residence at Pembroke State University during a regular Fall or Spring semester and who has not received more than two failing grades during his college or university career.

Students who attain an *overall cumulative quality point average* of 3.9 or higher are graduated *summa cum laude*. Those who achieve a minimum *overall cumulative quality point average* of 3.7 are graduated *magna cum laude* and students whose *overall cumulative quality point average* is at least 3.4 are graduated *cum laude*. Overall cumulative quality point averages are computed at the end of the semester prior to the student's last semester in school.

DEAN'S LIST

Students are eligible for the Dean's List, which is issued at the close of each semester, if they achieve a minimum *semester quality point* average of 3.60 while passing at least 12 semester hours of course work.

FRESHMAN ORIENTATION

A summer orientation program is sponsored by the University for all new freshmen. Two programs are held each summer, and students may select the one they wish to attend. The program is designed to acquaint students with the academic, co-curricular, and social life of the University. A battery of required University-administered tests is given to all students during the orientation session.

Freshman Testing Program

Each freshman will take a battery of University-administered tests prior to the student's first registration. No student will be allowed to register without being tested. The tests will be administered during the Freshman Orientation sessions held in the summer. The tests are not entrance examinations and will not deny admission to any student. The purpose of the tests is to provide information to assist in advising every student and in planning the student's program.

Students who score below acceptable standards on the University-administered test in Composition will be placed in CMA 104. Students who score below acceptable standards on the University-administered mathematics test will be placed in MAT 104. Students who score below acceptable standards on the reading test will be placed in EDN 101 (College Reading). Students placing in one or more of these courses will be advised to limit their course loads to 12 semester hours in the fall semester and to seek tutorial aid. CMA 104 and MAT 104 do not count toward graduation.

ACADEMIC ADVISEMENT

The University has an Academic Advising system to assist students in their respective academic programs. Each student is assigned to a faculty member who helps the student plan a program and maintains a record of progress during his or her college career. Although the advisor will guide the student in academic matters, the final responsibility for meeting all academic program requirements rests with the student.

The academic advisor may refer a student to other offices for further services in counseling, career planning and placement, tutoring, and skills development.

REGISTRATION

Each student must complete registration in person. No student is considered to be officially registered until the student has completed registration as outlined below. Students who fail to complete registration as prescribed will have their names dropped from all class rolls. If these students subsequently request to register, they must follow registration procedures just as if they had not started registration before.

The University has a two-phase registration system: the early registration phase and the regular registration phase.

Students currently enrolled at Pembroke State University may complete their registration by: (1) consulting with their advisor during the designated early registration period, (2) obtaining the registration material (Permit to Register Card, and Personal Data Form) from the advisor and preparing their class schedule for the next semester, (3) registering for the approved course work at the assigned major academic department, and (4) paying tuition and fees to the Cashier's Office.

Students entering Pembroke State University for the first time or returning after an absence of one semester or more may complete their registration by: (1) consulting with their advisor during the designated registration period, obtaining a Permit to Register Card and preparing their class schedule for the semester, (2) registering for the approved course work at the assigned major academic department, and (3) paying tuition and fees at the Cashier's Office.

DROPPING AND ADDING COURSES

After a student has completed registration the only way the student's schedule can be changed is through the drop-add procedure. To drop and/or add a course a student must obtain a Drop-Add Form from an academic department, complete the form, have it approved by his advisor, obtain the signature of the losing and/or gaining professor, and present the form to the Cashier's Office and the Office of Records and Special Programs.

A student may withdraw from a course after the drop-add period but prior to and including the last day of the sixth week of the semester with a grade of "W" if the student obtains the signature of the instructor.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to withdraw from the University before the last date to withdraw from a class must complete the "Request for Withdrawal from the University" form, which is available in the office of Records and Special Programs. The form must be endorsed by the appropriate authorities as indicated on the form and submitted to the Office of Records and Special Programs. Applicable refunds will not be made until the withdrawal process is completed. I.D. cards and meal plans must be given to the cashier before withdrawal is complete.

Only under very unusual circumstances may a student withdraw from the University after the last date to withdraw from a class. The student must meet with the Office of Advisement and Retention, which after consultation with the faculty, will establish the validity of the request. Final approval must be granted by the Office of Academic Affairs. This process must be initiated before exam week. Unsatisfactory academic performance by itself is not sufficient basis for being allowed to withdraw officially.

Any student who withdraws from classes without completing the withdrawal procedure will receive a grade of "F" in all courses for which the student is registered.

REPETITION OF COURSES

Any course may be repeated. Semester hours and quality points in courses repeated are counted only once, and the most recent grade and the quality points corresponding to the most recent grade are used in computing point averages and meeting graduation requirements.

INDEPENDENT STUDY

A student who wishes to enroll in 499 Independent Study in any department must: (1) be classified as a senior, (2) have a *cumulative grade point average* of 3.0 or better in his major area of study, (3) request independent study in his major area, and (4) submit a *Request for Approval of Independent Study* in triplicate to the Office for Academic Affairs. The form can be obtained from the department head responsible for the student's major area of study. It must be approved by: (1) the professor supervising the student in independent study, (2) the department chairman, (3) the Dean of Records and Special Programs, and (4) the Office for Academic Affairs. The student may elect to work for one, two, or three semester hours of credit.

Upon completion of the independent study, the student must prepare a typewritten report of the study in duplicate. The Supervising professor will evaluate the report and the overall work in the independent study and assign the appropriate grade. A copy of the independent study should be filed in the departmental chairman's office.

CLASS ATTENDANCE

Regular class attendance is important to the educational experience of each student and to the academic integrity of the university curriculum. Students are expected to attend every class beginning with the first session. No matter what the cause, an absence from class does not relieve the student from any course requirement.

Instructors have the discretion to determine how the attendance policy will be implemented in their classes, the circumstance under which make-up work may be allowed, and whether attendance will be used as a criterion in determining the final grade. Excessive absences may result in failure. Faculty are encouraged to distribute a written statement of their policy.

Students should not enroll in a course if participation in University-sponsored activities will cause them to miss an excessive number of classes, as determined by the instructor.

Students whose absences impair their academic performance may be referred to the Director of Advisement and Retention.

THE PEMBROKE STATE UNIVERSITY ACADEMIC HONOR CODE**I. OVERVIEW**

The Pembroke State University Academic Honor Code sets forth the standards of academic honesty and integrity for students at PSU and describes attendant faculty responsibilities. Students and faculty are expected to be familiar with its provisions. This Code defines student behavior which violates the standards (Section III), and enumerates the penalties for violations and the circumstances under which such penalties may be imposed (Section IV).

Section V sets forth the procedures for dealing with cases where a violation of the Academic Honor Code is alleged. Those procedures permit a faculty member to address a student's first violation through discussion with the student. If the student freely admits the offense and accepts the penalty assigned by the faculty member, an agreement setting the matter is signed by both, the faculty member imposes the penalty, and the matter ends (Section V.A.). If PSU records show that the student has previously committed an Academic Honor Code violation, or if the student decides not to admit guilt or accept the penalty, or if the faculty member believes that the seriousness of the offense warrants a more severe penalty than those which may be imposed in the settlement process, the matter must be referred to the Campus Hearing Board (Section V.B.) if any penalty is to be imposed. The Campus Hearing Board hears the evidence from the faculty member and student and determines whether the student did commit a violation. If no violation is found, the matter ends and no penalty may be imposed. If the Campus Hearing Board finds that the student did commit a violation, it determines the appropriate penalty (Section V.C.). A student found guilty may appeal the Campus Hearing Board's decision to the Campus Appeal Board (Section V.D.).

II. STATEMENT OF PRINCIPLES

Academic honor and integrity are essential to the existence of a university community. Without maintenance of high standards of honesty, members of the instructional faculty are defrauded, students are unfairly treated, and society itself is poorly served. Maintaining the academic standards of honesty and integrity is ultimately the formal responsibility of the instructional faculty. To meet their responsibilities when academic dishonesty is suspected, individual faculty members must follow the policies and procedures stated in this Code.

Students are also members of the academic community. As responsible members of the University, students are obligated not to violate the basic standards of honor, and they are expected to take an active role in encouraging other members to respect those standards. Should a student suspect a violation of the Academic Honor Code, he/she should make the suspicion known to a member of the faculty or University administration.

Commitment to maintaining and encouraging high standards of academic honesty and integrity is demonstrated in many ways. One manifestation is the policies and procedures governing violation of the standards. Herein contained are the provisions of the PSU Academic Honor Code.

III. DEFINITIONS OF VIOLATIONS

Definitions and/or examples of violations of the Academic Honor Code are as follows.

A. CHEATING:

Intentionally using or attempting to use unauthorized materials, information, notes, study aids or other devices in any academic exercise. This definition includes unauthorized communication (oral and/or written) or receipt of such information during an academic exercise.

B. PLAGIARISM:

Intentionally or knowingly presenting the work of another as one's own (i.e., without proper acknowledgement of the source).

C. FABRICATION AND FALSIFICATION:

Intentional and unauthorized alteration or invention of any information or citation in an academic exercise. Falsification is a matter of altering information while fabrication is a matter of inventing or counterfeiting information for use in any academic exercise.

D. ABUSE OF ACADEMIC MATERIALS:

Intentionally or knowingly destroying, stealing, or making inaccessible library or other academic material.

E. COMPLICITY IN ACADEMIC DISHONESTY:

Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

IV. PENALTIES

All acts of academic dishonesty violate standards essential to the existence of an academic community. Some first offenses are properly handled and remedied by the faculty member teaching the specific course in which they occur. The faculty member must use the settlement procedure described in Section V to handle such an offense. The penalties which may be assessed are limited to the following: (a) a formal warning/reprimand, (b) a reduced grade (including F) for the assignment, (c) a reduced grade (including F) for the entire course. Whatever the penalty, a signed form regarding the settlement will be kept for five years (or until the student graduates) in the Office for Student Affairs. The purpose of this record-keeping is to be sure students who violate the Academic Honor Code a second time are dealt with appropriately. A second purpose is to deter students from repeating offenses.

All second offenses and some first offenses have import beyond the specific course in which the violation occurred. The Campus Hearing Board handles such violations, and the possible penalties are greater. In these cases the Campus Hearing Board may impose any of the penalties listed above (a,b,c) and/or the following: (d) disciplinary suspension from the University for a designated period of time (one semester, one year, etc.); or (e) dismissal from University for an indefinite period of time.

In all determinations of penalty, the following factors should be considered:

1. The nature and seriousness of the offense.
2. The injury or damage resulting from the misconduct.

3. The student's motivation and state of mind at the time of the incident.
4. The student's prior disciplinary record.
5. The student's attitude and demeanor subsequent to the violation.

V. PROCEDURES FOR HANDLING CASES

A faculty member responsible for assigning final grades in a course may acquire evidence directly, or through information supplied by others, that a student violation of the Academic Honor Code may have occurred. After collecting the evidence available, the faculty member should determine whether it warrants proceeding to the next level of inquiry.

If the faculty member determines that the evidence is sufficient, he/she should contact the Vice Chancellor for Student Affairs, who will determine from his records whether the student has previously admitted to or been found guilty of an Academic Honor Code violation. If the suspected violation would be a second offense, the faculty member must take the case to the Chairperson of the Campus Hearing Board. If the suspected violation would constitute a first offense but one which the faculty member considers the appropriate penalty to be more severe than an F in the course, the case must be brought to the Chairperson of the Campus Hearing Board. If the faculty member believes, however, that the suspected violation would be remedied by a penalty no greater than F in the course, the settlement procedure may be used to conclude the matter and provide a record (see Section IV. Penalties).

Once a student has received notice that he/she is charged with an Academic Honor Code offense, the student is not permitted to withdraw from the course in order to avoid the appropriate penalty.

A. Settlement Procedure

The faculty member meets with the student and presents the evidence of an Academic Honor Code violation, then request an explanation from the student. After hearing the explanation, if the faculty member determines that a violation has occurred, he/she fills out and signs the approved form distributed to all faculty members, noting the penalty to be applied, and gives the form to the student. The student has three school days to consider and seek advice on whether to admit guilt and accept the penalty by signing the form. If the student agrees to sign, he/she does so in the presence of the faculty member who then implements the penalty. The faculty member forwards the settlement form to the Vice Chancellor for Student Affairs, who keeps a record of first offenses for five years (or until the student graduates), and thus the matter is ended. If the student decides not to admit guilt or not accept the penalty, the faculty member must take the case to the Chairperson of the Campus Hearing Board, if any penalty is to be imposed.

B. Campus Hearing Board

The Campus Hearing Board is made up of three faculty members and one administrative member appointed by the Chancellor of the University, and three students appointed by the President of the Student Government Association. The conduct of Hearings is outlined in Article IV, Section C.2 of the Pembroke State University Student Constitution.

Where a student is not found in violation of the Academic Honor Code, a written report is prepared and sent to the Vice Chancellor for Student Affairs, who will maintain

a confidential file of materials related to the case. No part of that file becomes part of the student's disciplinary record. The case is closed, and no penalty may be imposed.

Where a student is found guilty of violating the Academic Honor Code, the Campus Hearing Board determines the appropriate penalty. Both student and faculty may submit evidence and make statements concerning the appropriate sanctions to be imposed. The Vice Chancellor for Student Affairs will supply the Student's previous Academic Honor Code disciplinary record.

At the conclusion of the evidence on the appropriate penalty, the Campus Hearing Board determines the penalty, and prepares a written report to the student and the Vice Chancellor for Academic Affairs, who notified the faculty member and the Vice Chancellor for Academic Affairs of its contents. If a penalty of a grade of F in the course or less is to be assigned, the faculty member imposes that penalty determined by the Campus Hearing Board and no other penalty. If a greater penalty is deemed appropriate, the Vice Chancellor for Student Affairs implements the penalty indicated in the report. The student will be notified within five days of the Campus Hearing Board's determination of penalty.

C. Campus Appeal Board

A student found guilty has the right of appeal, and is permitted five school days from the date the student receives notice of the report of the Campus Hearing Board to file a written notice of appeal with the Vice Chancellor for Student Affairs. Failure to do so will render the decision on the Campus Hearing Board final and conclusive.

If the request for appeal has been timely filed, the Vice Chancellor for Student Affairs shall deliver this request as well as materials related to this case to the Campus Appeal Board.

The composition of the Campus Appeal Board and its adjudicatory powers are described in Article V, Section C.1 of the Pembroke State University Student Constitution. For Academic Honor Code violations and their appeals, the Vice Chancellor for Academic Affairs or his designate will represent the Chancellor of the University.

VI. Advice To The Faculty

1. Faculty members should outline their expectations pertaining to the Academic Honor Code at the beginning of each course. In doing so they might authorize or prohibit specific forms of student conduct which are unique to their courses of disciplines. They should refer students to this Academic Honor Code. It is recommended that the following statement be included in all course syllabi:

STUDENT ACADEMIC HONOR CODE

Students have the responsibility to know and observe the PSU Academic Honor Code. This code forbids cheating, plagiarism, abuse of academic materials, fabrication, or falsification of information, and complicity in academic dishonesty. Any special requirements or permission regarding academic honesty in this course will be provided to the students in writing at the beginning of the course, and are binding on the students. Academic evaluations in this course include a judgement

that the student's work is free from academic dishonesty of any type; and grades in this course therefore should be and will be adversely affected by academic dishonesty. Students who violate the code can be dismissed from the University. The normal penalty for a first offense is an F in the course. Students are expected to report cases of academic dishonesty to the instructor.

2. Faculty members should take preventive measures to avoid cases of academic dishonesty (e.g., examinations should be carefully protected).

REQUIREMENTS FOR GRADUATION

Each candidate for graduation must meet all of the following requirements:

1. Have a minimum of 128 semester hours of course work; (can be completed in eight semesters with average of 16 hours per semester);
2. Have successfully completed the Basic Studies Program;
3. Earn a grade of "C" (2.0) or better English composition courses, CMA 105 and CMA 106;
4. Have successfully completed a program for an academic major;
5. Have a minimum overall cumulative quality point average of 2.0 and have a minimum cumulative quality point average of 2.0 in all work attempted at Pembroke State University;
6. Have a minimum overall cumulative quality point average of 2.0 in the major field of study;
7. Complete a minimum of 9 semester hours above the Basic Studies Program Level in the major field of study at Pembroke State University if the student transferred to Pembroke;
8. Be registered during the academic year in which the student's graduation occurs;
9. Complete the last 30 semester hours in residence at Pembroke State University;
10. Count no more than 24 semester hours of correspondence and/or extension credit (with no more than 12 semester hours of correspondence) from regionally accredited institutions toward a degree, provided that such correspondence credit is approved by the Office of Records and Special Programs and will no be applied to satisfy specifically stated course requirements in major programs;

Any student needing to take correspondence work after admission to study at Pembroke State University may be permitted to do so only after obtaining formal approval from the student's academic advisor, from the Office for Academic Affairs, and from the Office of Records and Special Programs.

11. Have the recommendation of the faculty;
12. Make application for the degree no later than the end of registration for the last semester prior to the completion of graduation requirements;
 - a. The Degree Application Form can be obtained from the Office of Records and Special Programs;
 - b. A non-refundable graduation fee of \$25 must accompany the application;
 - c. If a candidate fails to qualify after filing the student's application and fee before commencement, but does qualify at some later time, the student must submit another application and another fee;

- d. If the candidate fails to meet this requirement as specified, the student must wait until the next commencement to receive his or her degree;
13. Satisfy all financial obligation to the University.

All candidates are encouraged to complete a file in the Career Planning and Placement Center.

A student who completes graduation requirements at the close of the Spring Semester is required to attend commencement, which is held at that time. A student who completes graduation at any other time will have option of returning to participate in commencement or of receiving the diploma in absentia. If the student elects to receive the diploma in absentia, the student must submit to the Dean of Records and Special Programs by April 15 a written request which indicates the address to which the diploma will be mailed. When the request is made as indicated above, the diploma will be mailed after the graduation ceremony.

MISCELLANEOUS

Academic eligibility for a student shall be determined by current regulations.

A student must choose to meet the *graduation requirements* of one *catalog*. The student may elect to meet the requirements which were published in the University catalog which was current at the time the student entered this institution or a subsequent catalog; however, the student will not be allowed to meet some of the requirements of one catalog and some of the requirements of another catalog.

A student whose attendance at Pembroke State University is interrupted for more than one semester must meet the requirements published in the catalog which is in effect at the time the student resumes studies or those of a subsequent catalog.

Courses completed in other accredited colleges and universities for which transfer credit is requested will be evaluated in terms of Pembroke State University's academic regulations and curriculum, and in terms of the student's proposed program at Pembroke.

All courses attempted at all institutions are computed to determine a student's overall grade point average.

No student may transfer credit for any work taken after that time in a two-year college nor may any student who has attained junior status receive transfer credits for any work taken after that time in a two-year college.

Fractional credit will not be granted for partial completion of any course.

Students who wish to enroll in courses at other institutions to apply toward a degree at Pembroke State University must receive the written approval of their major advisor and the Registrar before registering for the course(s) in order for such credit to be acceptable to Pembroke State University. This permission must be on file in the Registrar's Office.

Permission to take courses at other colleges or universities while a student is on probation or is socially or academically ineligible to attend Pembroke State University will not be granted.



PEMBROKE
STATE UNIVERSITY

CURRICULA AND DEGREES

CURRICULA AND DEGREES

Pembroke State University operates on the traditional two-semester system and offers an extensive summer program designed to permit the academic acceleration of regular university students and to serve the needs of public school teachers. The Summer Session is divided into two terms.

B.A. AND B.S. DEGREES

The University offers various liberal arts programs leading to the Bachelor of Arts or Bachelor of Science degree and programs for teacher certification in several fields. Candidates who successfully complete the University requirements in the following fields receive the Bachelor of Arts degree:

- American Indian Studies
- Art
- Communicative Arts:
 - Dramatic Literature & Performance
 - Literature
 - English Education
 - Contracted Major (Mass Communication & Others)
- Economics
- History

- History:
 - Social Studies Education
 - Music
 - Philosophy and Religion
 - Political Science
 - Political Science:
 - Pre-Law
 - Public Administration
 - Sociology
 - Sociology:
 - Criminal Justice

Candidates who successfully complete the University requirements in the following fields receive the Bachelor of Science degree:

- Art Education
- Biology
- Biology:
 - Medical Technology
 - Biology Education
- Business Administration:
 - Accounting
 - Management
 - Office Administration
- Business Education
- Chemistry
- Chemistry:
 - Medical Technology
- Computer Science
- Elementary Education:
 - Early Childhood
 - Intermediate Grades
 - Middle Grades
- Health and Physical Education

- Health and Physical Education:
 - Education
 - Recreation Management/
 - Administration
 - Sports Medicine/
 - Athletic Training
- Mathematics
- Mathematics:
 - Computer Science
- Mathematics Education
- Music Education:
 - Instrumental
 - Vocal
 - Psychology
- Science Education
- Social Work
- Special Education:
 - Learning Disabilities
 - Mental Retardation

Candidates who hold the Associate in Applied Science Degree and who successfully complete the additional University requirements receive the Bachelor of Science in Applied Science Degree.

MASTER'S DEGREE PROGRAMS

Pembroke State University offers two Master's Degrees:
 Master of Science in Administrative Studies (M.S.A.S.)
 Master of Arts in Education (M.A.Ed.)

The University offers various master's programs leading to the Master of Arts in Education Degree. Candidates who successfully complete the University requirements in the following fields receive the Master of Arts in Education Degree:

Educational Administration and Supervision

Elementary Education:

- Early Childhood
- Intermediate Grades
- Middle Grades Education (G certification)
- Reading Education
- English Education
- Mathematics Education

Descriptions of graduate curricula and degrees one in the **Graduate Programs** section.

TEACHER CERTIFICATION PROGRAMS

The North Carolina State Board of Education has approved the following teacher certification programs at Pembroke State University:

UNDERGRADUATE LEVEL PROGRAMS

Elementary School	Special Areas (K-12)
*Early Childhood Education (K-4)	Art
*Intermediate Grades Education (4-6)	Music
Middle Grade Education (6-9)	Physical Education
Secondary Specializations (9-12)	Exceptional Children
Biology	Learning Disabilities
Business Education	Mental Retardation
English	
Mathematics	
Science Education	
Social Studies	

GRADUATE LEVEL PROGRAMS

Elementary Areas	Secondary Specializations (9-12)
Early Childhood (K-4)	English
Intermediate Grades (4-6)	Mathematics
Middle Grades (6-9)	
Reading (K-12)	

*Certification areas to be restructured as K-6 effective July 1989.

Programs leading to certification are available in the following non-teaching areas:

UNDERGRADUATE LEVEL PROGRAM

School Social Service Worker

GRADUATE LEVEL PROGRAMS

School Administrator
Curriculum-Instructional Specialist

CPC

All individuals who have been formally admitted to any of the undergraduate or graduate programs leading to certification must complete a Candidate for Professional Certification (CPC) form once each academic year that they are enrolled at the university. CPC forms are available in the Office of Teacher Education.

THE NATIONAL TEACHER EXAMINATIONS

All persons qualifying for a teaching certificate in North Carolina must pass appropriate sections of the National Teacher Examinations.

The student seeking admission to the Teacher Education Program completes the Communications Skills and General Knowledge tests of the National Teacher Examinations in accordance with criteria approved and published by the Teacher Education Committee at the time the student makes initial application for admission to the program. These tests will normally be taken at the time Basic Studies requirements are completed, usually by the second semester of the sophomore year or the first semester of the junior year. A copy of the scores must be received by the Office of Teacher Education before the student may be admitted to the Teacher Education Program.

The prospective teacher takes the Professional Knowledge test and appropriate teaching area section (s) of the National Teacher Examinations in accordance with criteria approved and published by the Teacher Education Committee prior to completion of the program. These tests will normally be taken during the semester in which student teaching occurs. A copy of these scores must be received by the Office of Teacher Education before a recommendation for certification is forwarded to the State Department of Public Instruction.

Students should have their scores sent directly to Pembroke State University by the Educational Testing Service. Sealed copies are not accepted.

Applications and information on the tests are available from the Director of Teacher Education.

UNDERGRADUATE TEACHER EDUCATION PROGRAM

Curricula for the undergraduate teacher education programs at Pembroke State University have been designed to develop competent individuals who will be able to serve as teaching professionals in the public and/or private schools of North Carolina as well as other sections of the nation. Each curriculum provides for the common needs of all teachers by beginning with a Basic Studies component which is designed to assure that each teacher begins with the necessary knowledge, skills, attitudes, and ideals to function not only as a teacher but as an educated citizen. The other common

component of all curricula is the segment of the Professional Studies component which deals with the methodological elements of teaching and includes the professional laboratory experience. This component is designed to provide the prospective teacher the opportunity to develop the competencies necessary for the specifics of the teaching profession. The most diverse and flexible aspect of the curriculum is the teaching specialization, which allows the individual to develop in a special area. While each curriculum is still developed around specific guidelines, stated competencies and guidelines for the teaching specialty are aimed at allowing for flexibility and diversity in program planning as well as providing for the individual development of the prospective teacher. Outlines of the various program requirements may be found the section related to the specific program chosen.

MASTER'S LEVEL PROGRAMS IN EDUCATION

Curricula for the Master of Arts in Education programs are designed to provide opportunities for continuing professional development and master's level certification for regional public/private school educators.

Each graduate education program is undergirded by a strong, diversified undergraduate program. The graduate program complements and enhanced the undergraduate program by extending the professional development opportunities of educators. Each program is designed to assist the student with obtaining greater professional competence in the chosen area of specialization. For descriptions of graduate curricula and degrees, see **Graduate Programs** section.

SPECIAL REQUIREMENTS FOR TEACHER EDUCATION MAJORS (ACADEMIC CONCENTRATIONS)

As required by the Board of Governors of The University of North Carolina, all freshman entering the Fall of 1989 and thereafter seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education must complete a concentration in basic academic discipline as part of their degree requirements. The 24-27 hours comprising these academic concentrations have been selected to provide students with a cohesive study of a basic academic discipline. Academic concentrations are available in American Indian Studies, Art, Biology, Communicative Arts, Geography, Geology, History, Mathematics, Music, Physics, Political Science, Psychology, and Sociology. Students may choose to earn a second major in Philosophy or Religion rather than an academic concentration. A list of courses required for each academic concentration is available from the appropriate department and appears among the program description for each department.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

The Teacher Education Committee selectively admits and periodically evaluates students in the Teacher Education Program on the basis of scholastic aptitude and suitability for teaching. NOTE: Admission into the University as a student does not automatically satisfy eligibility requirements for admission to Teacher Education Pro-

gram. Eligibility for admission into the Teacher Education Program will be determined by regulations current at the time initial application is made for admission into the program.

INITIAL ADMISSION TO THE PROGRAM

To be eligible for admission to the Teacher Education Program an individual must:

1. Have not more than nine hours of the Basic Studies requirements remaining.
2. Have earned a "C" (2.0) or better in EDN 227 and EDN 202.
3. Have an overall cumulative quality point average of 2.5 or better on a 4.0 scale.
4. Satisfactorily complete the Communication Skills and General Knowledge tests of the National Teacher Examination. Scores must be sent to Pembroke State University by the Education Testing Service.
5. Have the endorsement/recommendation of his/her advisor, Department Chairman, Foundations of Education instructor, and the Office of Student Affairs.

A student having a handicap which might adversely affect the student's ability to attain minimal competency in the teaching profession should arrange with the Director of Teacher Education for any needed accommodation.

Students should apply for admission to the Teacher Education Program during the second semester of the sophomore year or first semester of the junior year. Applications are available in the Office of Teacher Education. **NOTE: Students will not be allowed to enroll in more than two 300 or 400 level professional education courses until they have been formally admitted to the Teacher Education Program.**

Each student who applies for admission to the Teacher Education Program will be given written notification by the Chairman of the Teacher Education Committee of the approval or disapproval of the student's application by the Teacher Education Committee. A student is not considered admitted to the Teacher Education Program until such notification is made.

CONTINUATION IN THE PROGRAM

When the student's application for admission to the Professional Semester of the Teacher Education Program is disapproved or when the student earns a course grade of "D" or "F" in one of the required courses in his or her major or the professional education sequence, the student is automatically dropped from the Teacher Education Program and may not continue as a Teacher Education major until he or she reapplies for admission to the Program. A student seeking readmission to the Program must obtain approval of the following and then make application for admission to the Teacher Education Committee.

1. The student must obtain the approval and recommendation of the student's advisor.
2. The student must obtain the approval and recommendation of the appropriate Program area coordinating team.
3. The student must obtain the approval and recommendation of the Chairman of the Teacher Education Committee.

4. The student must apply to the Teacher Education Committee for readmission and be approved by them for readmission to the Program.

Upon being readmitted to the Program, the student must retake the required major or professional education course in which the "D" or "F" was earned and earn a minimum course grade of "C" (2.0) or better. The course may be repeated one time only.

ADMISSION TO THE PROFESSIONAL SEMESTER

The Professional Semester occurs in the senior year and is devoted entirely to study in professional education and to student teaching. No student accepted for enrollment in the Professional Semester is permitted to register for any course other than those specified as professional education courses as part of the Professional Semester.

The application for enrollment in the Professional Semester must be filed with the Director of Teaching Education Field Experiences not later than three months prior to enrolling in the Professional Semester.

To be eligible for consideration by the Teacher Education Committee and approved for enrollment in the Professional Semester, each candidate for a teaching certificate must:

1. Have completed all required Basic Studies courses.
2. Not lack more than six semester hours of completing the requirements in the major field of study.
3. Have a quality point average of 2.5 or better overall AND also in the student's major field of study.
4. Present a certificate of eligibility verified by the Registrar.
5. Present a final recommendation as to character, suitability, and aptitude for teaching for the student's advisor and major department head.
6. Have satisfactorily completed all professional education requirements, excluding those in the Professional Semester, prior to admission to the Professional Semester.
7. Submit a statement of physical fitness from a licensed physician.

Accommodations to handicaps which might adversely affect the student teaching experience should be arranged with the Director of Teacher Education Field Experiences.

Each student who applies for admission to the Professional Semester will be given written notification by the Director of Teacher Education Field Experiences of the approval or disapproval of the student's application by the Teacher Education Committee. A student is not considered officially admitted to the Professional Semester until such notification is made AND all University registration procedures are completed.

CERTIFICATION-ONLY

Those students who already possess a baccalaureate degree may enroll to earn teacher certification. In addition to applying the University through the Admissions Office such students must complete a Request for an Individualized Education Program available from the Office of Teacher Education. A copy of all previous college/university course work must accompany the request. Based upon review of the transcript by the Director of Teacher Education and the appropriate department chair and/or program coordinator, an individualized program of study, leading to a recommendation for certification by Pembroke State University, is prepared. Students returning for certification only must meet the same Teacher Education Program admission and continuation regulations as degree-seeking students. In addition, those whose previous cumulative grade point average is below a 2.5 on a 4.0 scale must maintain at least a 2.7 g.p.a. each semester they are working toward certification and earn at least a 2.7 g.p.a. in major and professional education courses. Additional information is available from the Office of Teacher Education.

UNIVERSITY ORIENTATION REQUIREMENT

A one-semester hour University orientation course (ORI 100) is required of all freshmen during their first fifteen credit hours of course work at the University.

BASIC STUDIES PROGRAM

Graduation from Pembroke State University is based on successful completion of Basic Studies, which is required for all baccalaureate degrees, and upon successful completion of a specialized program for a major.

Basic Studies at Pembroke State University seeks to graduate students with broad vision who are sensitive to values and the complexity of social problems and who are becoming effective citizens with an international perspective and a deep appreciation for the great principles and achievements of civilizations. The program attempts to impart to the student an understanding of the fundamental principles and contributions of a wide variety of disciplines. At the same time, it seeks to help students to analyze and weigh evidence, to exercise quantitative and scientific skills, to make informed decisions, to write and speak clearly, and to be creative.

BASIC STUDIES REQUIREMENTS

(50 Hours Total)

A. Basic Skills (6 hours)

CMA	105	Composition I
CMA	106	Composition II

A full-time student must enroll in CMA 105 - Composition I — immediately and must earn a "C" (2.0) grade or better before enrolling in CMA 106 - Composition II. A student must remain continuously enrolled in CM 105 or 106 until he or she has earned a "C" (2.0) grade or better in CMA 106.

All entering freshmen and all freshman transfers must complete the CMA 105 & 106 sequence successfully before they earn a total of 60 credit hours. All students who transfer with 30 credits or more must complete CMA 106 during their first 30 semester hours at Pembroke State University. Students who have not completed their composition courses at the end of the allotted time will no longer be permitted to register for 300 or 400 level courses. If they attempt to do so, the registrar's office will cancel their registration and require them to register only for courses below the 300 level until they receive a "C" (2.0) in CMA 106. (The Admissions and Retention Subcommittee of the Faculty Senate, or in emergency situations the Dean of Records and Special Programs, will consider exceptional cases.)

For some majors, certain courses may count toward both Basic Studies and major requirements. Ask your advisor for assistance in selecting appropriate courses.

B. Humanities (18 hours)

(1) Fine Arts (3 hours)

Choice of *one* course from the following:

ART	205	history and Appreciation of Art
CMA	230	Introduction to the Theatre
MUS	230	Introduction to Music Appreciation
MUS	295	Music History and Literature 1

(2) Literature (3 hours)

Choice of *one* course from the following:

- CMA 203 Introduction to Literature
 CMA 205 World Literature I
 CMA 206 World Literature II

(3) History (3 hours)

Choice of *one* course from the following:

- HIST 101 American Civilization to 1865
 HST 102 American Civilization since 1865
 HST 126 Early European Civilization
 HST 127 Modern European Civilization
 HST(AIS)210 History of the American Indian

(4) Philosophy and Religion (3 hours)

Choice of *one* course from the following:

- PHI 100 Introduction to Philosophy
 PHI 101 Introduction to Logic
 PHI 204 Introduction to Ethics
 REL 130 Introduction to Religion

(5) Humanities Division Electives (6 hours)

Choice of *two* course from the following areas. Both courses may not be selected from the same area except that a student may elect 6 hours of foreign language. Music majors may elect two Fine Arts classes.

Chancellor's Scholars may elect six hour from Area 5.

Since all Teacher Education programs require a total of six credit hours of 200-level literature and 6 hours of 100-200 level history, Teacher Education majors must take their humanities electives in literature and history (three credit hours each). Music Education majors may substitute MUS 296 and MUS 395 for their literature and history electives.

Area 1. Fine Arts

- ART 101 Elements of Design
 ART 205 History and Appreciation of Art
 CMA 250 Introduction to the Theatre
 MUS 113 Fundamentals of Music Theory
 MUS 209 Basic Musicianship
 MUS 230 Introduction to Music Appreciation
 MUS 296 Music History and Literature II

Area 2. Communicative Arts

- CMA 100 Interpersonal Communication
 CMA 101 Fundamentals of Speech
 CMA 204 Mythology of All Peoples
 CMA 205 World Literature I
 CMA 206 World Literature II
 CMA 207 Studies in Literature
 CMA(AIS)220 American Indian Literature
 CMA 221 Major American Authors
 CMA 246 Major British Authors
 FRH 131, 132 Elementary French
 FRH 231, 232 Intermediate French
 GER 131, 132 Elementary German
 SPN 131, 132 Elementary Spanish
 SPN 231, 232 Intermediate Spanish

Area 3. History

HST 101	American Civilization to 1865
HST 102	American Civilization since 1865
HST 126	Early European Civilization
HST 127	Modern European Civilization
HST(AIS) 210	History of the American Indian

Area 4. Philosophy and Religion

AIS 201	American Indian Culture
PHI 100	Introduction to Philosophy
PHI 101	Introduction to Logic
PHI(REL)102	Perspectives on Man
PHI 202	philosophy of Religion
PHI 204	Introduction to Ethics
PHI 205	Social and Political Philosophy
PHI 211	American Philosophy
REL 105	Survey of Old Testament
REL 106	Survey of New Testament
REL 130	Introduction to Religion
REL 209	Religion in America
REL(AIS)213	American Indian Traditions
REL 214	Introduction to Religious Ethics
REL 216	Religions of the Far East
REL 218	Religions of the Near East

Area 5. (Chancellor's Scholars only)

CSP 200	Great Cultural Epochs I —will receive credit for any course in Section (5) of Humanities
CSP 201	Great Cultural Epochs II —will receive credit for any course in Section (5) of Humanities

C. Social Science (12 hours)

Each student must earn three hours in four out of five of the following disciplines, chosen from the courses listed below:

(1) Economics

ECN 201	Principles of Economics I
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(2) Geography

GGY 101	Introduction to Geography
GGY 102	World Regional Geography
GGY 200	Cultural Geography
GGY(ECN)206	Economic Geography

(3) Political Science

PLS 100	Introduction to Political Science
PLS 101	Introduction to American National Government

(4) Psychology

PSY 101	Introductory Psychology
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(5) Sociology

SOC 101	Introduction to Modern Sociology
SOC 105	Introduction to Cultural Anthropology
SOC 201	Sociological Concepts

Chancellor's Scholars may substitute these courses for courses in any two disciplines:

CSP	100	Current World Problems —will receive credit for any course in Social Science
CSP	275	Frontiers in Human Behavior —will receive credit for any course in Social Science

D. Natural Sciences and Mathematics (12 hours)

- (1) Biology (3 hours)

BIO	100	Principles of Biology
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- (2) Physical Science (3 hours)

Choice of *one* course from the following:

CHM	100	General Chemistry
PHS	110	Physical Science I
PHS	111	Physical Science II
PHY	100	Elementary Physics I
PHY	150	College Physics I
PHY	200	University Physics I

Chancellor's Scholars only:

CSP	250	Structures of the Universe
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—will receive credit for any course in Section (2) of
Natural Science and Mathematics

- (3) Mathematics (3 hours)

Choice of *one* course from the following:

MAT	105	Introduction to College Mathematics
MAT	106	Foundational Concepts of Mathematics
MAT	107	College Algebra
MAT	108	Plane Trigonometry
MAT	109	College Algebra and Trigonometry
MAT	221	Calculus I

- (4) Divisional Elective (3 hours)

Choice of *one* additional course to complete the 12 hour requirement.

BIO	100L	Laboratory Investigations and Experiences in General Biology
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BIO	101	General Botany
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BIO	102	General Zoology
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BIO	103	Basic Human Biology
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BIO	201	Economic Botany
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BIO	207	History of Biology
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BIO	210	Conservation and Environment
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CHM	100, 101	General Chemistry
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CSC	200	Intro. to Computer Programming—FORTRAN
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CSC	201	Intro. to Computer Programming—COBOL
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CSC	210	Introduction to Statistics
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GLY	100	Physical Geology
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GLY	115	Earth Science
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MAT 105	Introduction to College Mathematics
MAT 106	Foundational Concepts in Mathematics
MAT 107	College Algebra
MAT 108	Plane Trigonometry
MAT 109	College Algebra and Trigonometry
MAT 118	Finite Math
MAT 210	Introduction to Statistics
MAT 221, 222	Calculus I, II
PHS 110, 111	Physical Science I, II
PHS 116	Exploring Man's Energy Choices
PHY 156	Astronomy
PHY 100, 101	Elementary Physics I, II
PHY 115	Electronics
PHY 150, 151	College Physics I, II
PHY 200, 201	University Physics I, II

Chancellor's Scholars only:

CSP 240	Practices and Trends in Computer Applications —will receive credit for any course in Section (4) of Natural Science and Mathematics
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E. Physical Education (2 hours)

Each student is required to complete two of the following courses:

PED 101	Wellness and Fitness
PED 130	Fitness Walking
PED 131	Archery
PED 132	Badminton
PED 133	Beginning Golf
PED 134	Beginning Swimming
PED 135	Beginning Tennis
PED 137	Bowling
PED 138	Folk Dancing
PED 139	Racquetball
PED 140	Intermediate Swimming
PED 141	Physical Conditioning
PED 142	Social Dance
PED 143	Stunts and Tumbling
PED 144	Trampoline
PED 145	Volleyball
PED 146	Weight Training
PED 149	Scuba Diving
PED 171	Intermediate Tennis
PED 172	Advanced Lifesaving
PED 175	Athletic Ballet
PED 176	Intermediate Golf
PED 177	Intermediate Weight Lifting
PED 178	Advanced Physical Conditioning
PED 179	Aerobic Fitness
PED 180	The Art of Self Defense

REQUIREMENTS FOR A DOUBLE MAJOR

A student may elect to earn majors in two separate disciplines on the condition that the student meets all requirements for each major. The student who completes requirements for more than one major will receive only one degree, but at the time of initial graduation, the record will indicate both majors.

REQUIREMENTS FOR A SECOND BACCALAUREATE DEGREE

A student with a bachelor's degree may receive a second baccalaureate degree if it is a different degree and a different major by fulfilling the following requirements:

- (1) The student must meet all the requirements for the second degree and major.
- (2) The student must complete a minimum of 30 hours in residence beyond the requirement for the first degree.

REQUIREMENTS FOR A MINOR

A recognized minor should ordinarily consist of 18 to 21 semester hours of courses. With the approval of the department granting the minor, up to six hours of the courses counted toward a minor may be used to satisfy Basic Studies, major requirements, or requirements of an additional minor. The award of a minor will require formal approval of the department concerned. Successful completion of a minor will be noted on the student's official transcript. Student participation in minor programs will be optional.

The following Departments offer minors (A list of minors appears on p. 5):

American Indian Studies	History
Art	Mathematics and Computer Science
Business Admin. and Economics	Music
Communicative Arts	Philosophy and Religion
Geology and Geography	Political Science
Health, Physical Education and Recreation	Psychology
	Sociology, Social Work, and Criminal Justice

In addition, three interdepartmental minors are available (see **Special Programs** section):

Applied Gerontology	Personnel and Organizational leadership
World Studies	

ACADEMIC CONCENTRATIONS

In addition to majors and minors, a number of departments offer academic concentrations. These concentrations require from 24 to 27 semester hours, depending on departmental requirements. Teacher Education majors subject to the University of North Carolina requirement for completion of a concentration in a basic academic discipline may select one of these academic concentrations to fulfill that requirement. Any student may elect to complete an academic concentration in addition to a major.

Students considering academic concentrations should consult the appropriate academic department section.

Academic concentrations are available in the following subject areas:

American Indian Studies	History
Art	Mathematics
Biology	Music
Communicative Arts	Physics
Geography	Political Science
Geology	Psychology
	Sociology

CHANCELLOR'S SCHOLARS PROGRAM

The Chancellor's Scholars Program is designed to recognize outstanding students and to promote the scholarly growth of the students selected for the program by providing interdisciplinary educational opportunities not necessarily available in the general curriculum programs. These distinctive opportunities include: small interdisciplinary seminars; an intellectually stimulating social environment; greater curricular flexibility; more personal contact and scholarly discussion with students and faculty from the various disciplines; closer interaction with individual faculty members in the program; and the opportunity to write a senior thesis or to develop a senior project with faculty supervision.

Chancellor's Scholars are selected on the basis of exceptionally high grades, Scholastic Aptitude Test (SAT) scores or American College Testing (ACT) scores, and/or extra-curricular achievements. Tuition scholarships are awarded to as many of the Chancellor's Scholars as possible. Chancellor's Scholars are appointed by the Chancellor upon the recommendation of the Chancellor's Scholars Council. After receiving the recommendation from the Council, the Chancellor sends a personal letter to the student inviting him/her to participate in the program.

To remain in the Chancellor's Scholars Program, students are required to maintain a minimum overall grade-point average of 3.0, maintain a minimum CSP grade-point average of 3.0, and receive appropriate recommendations by the Chancellor's Scholars Council.

The Chancellor's Scholars Program allows the student to obtain a broad and solid general education, select an existing major at the University that best meets career goals, and participate in an enriching series of interdisciplinary seminars.

For Chancellor's Scholars seminars, please see **Special Programs** section.

For further information, write Director, Chancellor's Scholars Program, Pembroke State University, Pembroke, NC 28372.

HEALTH PROFESSIONS — PREPROFESSIONAL CURRICULA

Although Pembroke State University does not offer degrees in the health professions, the departments of biology and physical science (chemistry) provide curricula which meet the requirements for admission into most schools of medicine, dentistry, veterinary science and medical technology. In addition, students wishing to pursue a degree in a variety of other health related professions such as nursing, pharmacy, optometry, physical therapy, etc. can obtain some of the required college preparation (generally two years) at Pembroke State University prior to transfer to the appropriate professional school. In each case, admission to the professional school is competitive and completion of the prescribed curriculum at Pembroke State University does not guarantee such admission. Because entrance requirements vary with the profession and with individual schools, it is the responsibility of the student to be familiar with the requirements of the specific school to which he or she plans to apply. Advice or assistance can be obtained from the Health Careers Counselor, the Chairman of Committee on Preprofessional Curricula, or from any member of the biology or chemistry faculty.

PREPROFESSIONAL CURRICULA IN MEDICINE, DENISTRY AND VETERINARY SCIENCE

Although a B.S. degree is technically not a prerequisite for these programs, the large majority of students who apply and are accepted do hold an undergraduate degree. It is therefore recommended that students interested in these areas pursue a B.S. degree. The departments of biology and physical science (chemistry) offer B.S. programs with biomedical emphasis that enable a student to meet requirements for most professional schools. These programs are detailed in the program descriptions of the Departments of Biology and Physical Science.

ACCELERATED PROGRAM IN MEDICAL TECHNOLOGY

Pembroke State University offers a program to its biology and chemistry majors in affiliation with hospitals approved by the Council on Medical Education of the American Medical Association which gives, by the board of registry of Medical Technologists, a medical technology certificate. In this program the students complete six semesters of on-campus study and one year of study and training in an affiliated hospital. After satisfactory completion of the fourth year (hospital training), Pembroke State University will award the B.S. degree in biology or chemistry to the students. Undergraduate students enrolled in the fourth year of the accelerated program in medical technology must pay tuition to both Pembroke State University (not including fees) and to the affiliated hospital. Details of the medical technology programs appear in the program descriptions of the Departments of Biology and Physical Science.

Currently, Pembroke State University has formal affiliations with McLeod Memorial Hospital in Florence, South Carolina, and with Moses Cone Hospital in Greensboro, N.C. Dr. Vera C. Hyman, M.D., and Ms. Vicki Anderson, M.T., the program director and the education director at McLeod Memorial Hospital, are regarded as adjunct professor and lecturer respectively at Pembroke State University. Similar appointments are made for Robert M. Gay, M.D. and Jean Smith, M.T., the medical director and

program director respectively at Moses Cone Hospital. Although the affiliation agreement does provide PSU students some preference in the admissions process it should be noted that admission to the hospital program is competitive and that the admissions process is a function of the hospital program.

It should be noted that this is a accelerated program which allows the student to complete in four years a program that often requires five years. Students may elect the alternate route in which a B.S. degree in biology or chemistry (biomedical emphasis) is obtained before application to a hospital program. Students electing this route are eligible to apply to any school of medical technology and are not limited to programs affiliated with Pembroke State University.

ACCELERATED PROGRAM IN PODIATRIC MEDICINE

In affiliation with the Pennsylvania College of Podiatric Medicine, the Department of Biology is able to offer to selected majors an Accelerated Podiatric Medical Education Curriculum (APMEC). The Doctor of Podiatric Medicine degree, awarded by the Pennsylvania College of Podiatric Medicine, is a seven-year program, involving three years of pre-professional and four years of podiatric medical education. Students selected for this program complete three years of a prescribed biology program at Pembroke State University and are awarded the B.S. degree in Biology upon successful completion of the first year of the podiatry curriculum at the Pennsylvania College of Podiatric Medicine.

Admission to the APMEC Program is limited to students attending those institutions formally affiliated with the Pennsylvania College of Podiatric Medicine. Students admitted into the program are generally from rural or underserved areas and are interested in returning to those areas to practice. Pembroke State University is one of eighteen currently affiliated institutions (only three of these are outside of the state of Pennsylvania). The Pennsylvania College of Podiatric Medicine has agreed to reserve up to three seats annually for students of Pembroke State University who have satisfactorily completed a prescribed three-year pre-professional curriculum. Completion of the preparatory program does not guarantee admission to the Pennsylvania College of Podiatric Medicine. Admission involves a competitive application process. Students accepted for the study of podiatric medicine must possess exceptional qualifications.

Additional information can be obtained from the Chairman of the Biology Department. Details of the curriculum in podiatric medicine are found in the program descriptions of the Department of Biology.

M.A.R.C. (MINORITY ACCESS TO RESEARCH CAREERS) PROGRAM

The M.A.R.C. Program at Pembroke State University, a training program funded by the National Institute of Health, is designed to train qualified minority students for a career in biomedical research. In addition to a variety of unique educational experiences, the program will provide selected students a monthly stipend and will pay tuition and fees during their last 24 months at Pembroke State University. Administration of the program is the responsibility of the Program Director.

The M.A.R.C. Program is an honors program and trainee selection is on a competitive basis. Students will be selected at the end of the sophomore year by the M.A.R.C. Steering Committee. Requirements for selections are:

1. Completion of the first two years of the M.A.R.C. curriculum in either biology or chemistry. These requirements are more demanding than those of the traditional biology or chemistry. See Biology Department section for biology requirements and Physical Science Department section for chemistry requirements.
2. An overall G.P.A. of at least 3.0.
3. An interest in a career in biomedical research and the desire to pursue the Ph.D. degree in a biomedical science or related field.

Students selected as M.A.R.C. trainees will spend the summer between the sophomore and junior years in an intensive curriculum enhancement program at Pembroke State University. Skills will be developed or enhanced in molecular biology, organic chemistry, statistical analysis, and computer methodology. This program, taught by Pembroke State University faculty, will better prepare the students for the demanding curriculum of the junior and senior years. See p. 153 & 273 for details.

A vital component of the M.A.R.C. Program is a summer's research experience at a major research institution between the junior and senior years. Arrangements have been made with a number of research scientists in both academic and industrial settings to provide M.A.R.C. trainees from Pembroke State University with this research experience. For additional information about the M.A.R.C. training program in biology or chemistry, contact the Chairman of the Department of Biology.

AIR FORCE ROTC PROGRAM

General military courses are available for the freshman and sophomore years, and professional officer courses for the junior and senior years.

Advanced credit for a portion of the freshman/sophomore curriculum may be granted for previous participation in high school junior ROTC, Army or Navy Senior ROTC, Civil Air Patrol, military school, or prior active military service.

Qualifications

The general qualifications for general military course entry are as follows: (a) United States citizenship; (b) meeting college entrance medical standards; (c) good moral character, and (d) attending a college or university offering the AFROTC Four-Year Program or a college or university which has a cross-enrollment agreement with an institution hosting the AFROTC Program. Pembroke State University has a cross-enrollment agreement.

Mission

The AFROTC Program mission is "to recruit, educate, and commission officer candidates through a college campus program in response to Air Force requirements." To support this mission, AFROTC has three specific objectives: (1) to recruit, select,

and retain officer candidates until they are commissioned as second lieutenants in the US Air Force; (2) to provide a college-level education that qualifies cadets for commissioning in the US Air Force; and (3) to strengthen each cadet's sense of personal integrity, honor, and individual responsibility; enhance knowledge of how the US Air Force serves the national interest; increase understanding of officer professionalism in the US Air Force; and develop potential as a leader and manager.

For Aerospace Studies courses, please see the **Special Programs** Section of this catalog.

For further information, write AFROTC Program, Pembroke State University, Pembroke, NC 28372.

ARMY ROTC PROGRAM

Enrollment in the Basic Course is open to all full-time students, and it carries with it no obligation for military service. Completion of the Basic Course is a prerequisite for application into the Advanced Course.

Prior service in the military, high school ROTC, or membership in a National Guard or Reserve unit may result in direct Advanced Course placement. Entrance into the Advanced Course is selective and is based upon demonstrated performance and leadership potential. Students who satisfactorily complete the Advanced Course and graduate from the University are commissioned as Second Lieutenants into the US Army.

Qualifications

The general qualifications for entry into the ROTC Program are as follows: (a) United States citizenship; (b) meeting college entrance medical standards; (c) good moral character; and (d) being enrolled as a full-time student at Pembroke State University.

Mission

The mission of the Army ROTC Program at Pembroke State University is to attract, motivate, and prepare selected students to serve as commissioned officers in the active or reserve components of the US Army; to provide a practical understanding of the concepts and principles of military science; to develop a strong sense of duty, honor, and country; to promote teamwork and individual fitness; and to develop an understanding of and an appreciation for international relations and national security. Attainment of these objectives prepares students for commissioning and establishes a solid foundation for their professional development and effective performance in the uniformed service or in civilian enterprise.

The Army ROTC Program is of modular construction and is composed of a Basic and an Advanced Course. For Army ROTC courses, please see Military Science in the **Special Programs** section.

For further information, write Department of Military Science, Pembroke State University, Pembroke, NC 28372.

EXPERIENTIAL LEARNING PROGRAMS

Practical work experience is very important in today's world. Students at Pembroke State University may elect to get some practical work experience which is related to their program major (or minor) through several practical work experiences.

Experiential Learning Program

Experiential Learning is a working-and-learning arrangement. The student negotiates a proposal in some area of interest to the student. Negotiation involves the student, the University, and an organization (business, agency, etc.) where the student plans to work. Experiential Learning is available through academic departments and requires approval of the chairman.

The following regulations govern the offerings of Experiential Learning:

1. The Experiential Learning Program consists largely of Experiential Learning and Experiential Learning II. A student must take the courses in numerical order. They cannot be taken concurrently.
2. The amount of credit that can be earned in Experiential Learning I and II varies from one to three semester hours in each course, and is jointly determined by the student and the student's major advisor on the basis of what the student contracts to do.
3. To be eligible for enrollment in Experiential Learning I or II, a student must:
 - a. have declared for a major program in a department which provides its students with practical work experience through Experiential Learning I and II;
 - b. be classified as a junior or senior;
 - c. have an overall cumulative quality point average of at least 2.0;
 - d. have the written recommendation and approval of the major department chairman and the major advisor.
4. Each eligible student who registers for Experiential Learning I or II is required to sign and carry out a written work-learning contract jointly developed by the student, the student's advisor, and the organization providing the practical work experience which states:
 - a. what the student is to do, what the major advisor is to do, and what the organization is to do;
 - b. the number of semester hours the students will earn in completing the contract;
 - c. that credit will be earned only if all of the contracted work is completed within a contract period of one-semester or term of summer session;
5. Eligible students are allowed to use not more than a total of six semester hours credit in Experiential Learning I and II in meeting the 128 semester hours minimum requirement for the degree.

Cooperative Education Program

Cooperative Education is an arrangement whereby Pembroke State University cooperates with an outside business or agency to help a student directly explore a career-related field as an integral part of the educational program. The program allows participating students to alternate full-time work and on-campus study as comple-

mentary educational experiences while pursuing an academic degree program. To be eligible, a student must have completed a minimum of 30 semester hours and normally must have earned a cumulative GPA of 2.00 or above. Participants receive pay and academic credit for the work experience which is coordinated and supervised by the Career Planning and Placement Center.

Internship Program

The Internship Program provides opportunities for students to earn academic credit for approved work or research programs in cooperating business-government, or education organizations. The internships, which are of one-term duration, are open to qualified junior or senior students with the approval of the department chairman. Further information is available from the Career Planning and Placement Center.

THE GRADUATE PROGRAMS

Pembroke State University offers a program of graduate studies leading to a Master of Science Degree in Administrative Studies (M.S.A.S), a Master of Arts Degree in Education (M.A.Ed.), and graduates level (G) certification for teachers and school administrators in eight areas of specialization. For information about these programs and their admissions requirements, see the **Graduate Programs** section of this catalog.

The Master of Science in Administrative Studies is an interdisciplinary program established in response to the career and professional development needs of administrators and managers in the region. This master's level program provides advanced study opportunities to qualified individuals from the private, public, and nonprofit sectors. For information about this program, contact the Director, Dr. Daniel G. Barbee (Business Administration Building 118, Ext. 531).

The Master of Arts in Education Program, described in the catalog section on **Graduate Programs**, offers graduate curricula and degrees in the following areas: Elementary Education (K-6); Middle Grades Education (6-9); Elementary Education (Reading Education); Educational Administration and Supervision; English Education; and Mathematics Education.

Candidates for the Master of Arts in Education degree will be required to complete successfully a minimum of 30 semester hours in the prescribed program of graduate study. Where it is felt that more work is required to prepare a candidate for the degree and/or graduate certification, the number of semester hours required work will be increased.

The Master of Arts in Education programs in Elementary Education and in Educational Administration and Supervision provide curricula and leadership training for continuing professional and career development. Specialities are offered leading to certification in early childhood education, intermediate education, middle grades education, reading education, educational administration and supervision (curriculum and instruction).

The curriculum core in Elementary Education includes 15 semester hours of education in the areas of curriculum, research, language development, reading, diagnosis/

evaluation of pupils and programs and internships. Appropriate electives (18 hours or more) are also required.

The curriculum core in Middle Grades Education (6-9) includes 12 semester hours of education in the areas of curriculum, adolescent psychology, research, and internship. Students also take 24 hours of guided electives in two areas of concentration.

The curriculum core in the reading education area of Elementary Education includes 15 semester hours in the areas of curriculum, research, language development, general reading diagnosis, and educational psychology. Fifteen (or more) semester hours of appropriate reading education courses and/or electives are required. Programs of study are available for those teachers with prior undergraduate preparation and/or certification in reading education; for those teachers without any prior preparation in reading education; and for those teachers who need to update their preparation in reading.

The curriculum core in Educational Administration and Supervision consists of 18 semester hours of education in the areas of educational administration and supervision, curriculum, research, and an internship complemented by 12 (or more) semester hours of appropriate electives.

The curriculum in English Education includes a core of 18 semester hours in the areas of literacy and literature education, the teaching of writing, the teaching of literature, educational psychology, research, and internship. Students also take 15 hours of guided electives in literacy, literature, and related subjects.

The curriculum in Mathematics Education includes a flexible core of 18 hours in two areas: mathematics education (curriculum, theory, history, and problem solving) and professional education (educational psychology, history and philosophy of education, research, and internship). Students also take 18 hours of guided electives in five areas of mathematics.





PEMBROKE
STATE UNIVERSITY

**STUDENT AFFAIRS
and
STUDENT SERVICES**

STUDENT AFFAIRS and STUDENT SERVICES

Supervision of the James B. Chavis University Center is a primary responsibility of the Director of Student Activities. The University Center serves as the hub of all campus activities. Located in the center of campus, the University Center houses: three conference rooms, Student Activities offices, SGA offices, the Career Planning and Placement Center, the Counseling and Testing Center, two dark rooms for the school newspaper/yearbook staff, cafeteria, Bert's Restaurant, gameroom, student lounges and the Campus Post Office.

STUDENT GOVERNMENT

Although discipline is the legal responsibility of the administration, the principle of Student Government is fully supported by the administration and faculty. All students attending Pembroke State University automatically become members of the Student Government Association. Student Government functions through its elected representatives and its sponsor, the Vice Chancellor for Student Affairs. Officers of the Student Government are elected by the student body each spring according to the constitution and bylaws of the organization.

STUDENT SENATE

The Legislative Branch of the Student Government Association, the Student Senate, functions as the policy-making body of the SGA. Also, the Senate recommends policies and regulations necessary and proper to promote the general welfare of the student body. The Senate is empowered to schedule the time and place of its meetings, provided that there are regular meetings at least once every two weeks. Composition of the Senate is one representative for every one hundred students, based upon the previous September enrollment. The President of the Senate is the Vice-President of the Student Government Association.

ATHLETICS

Pembroke State University excels in athletics in both men's and women's competition. Recognition is strived for through competition in the Carolinas Intercollegiate Athletic Conference, the National Association of Intercollegiate Athletics (District 26), and the National Collegiate Athletic Association (Division II).

Eight men's sports and five women's sports give Pembroke State University constant recognition at the local, state, and national levels. Men's varsity sports are sponsored in baseball, basketball, cross country, golf, soccer, tennis, track, and wrestling while women's sports include basketball, softball, tennis, volleyball, and cross country.

Conference championships have been won in many of Pembroke State University's programs and advancing to national competition has been a feat of which Pembroke State is very proud. Cross country, wrestling, and track teams often attend nationals while basketball and baseball have participated in national competition. Pembroke State University won the 1978 national championship in cross country.

Pembroke State has won over 50 district championship crowns through the years. Over 40 student-athletes have been honored as First-Team All-Americans. These All Americans are recognized on the "Pembroke State University All-American Board" proudly displayed in the English E. Jones Health and Physical Education Center. Also, former athletic greats are inducted annually into the "Pembroke State University Athletic Hall of Fame."

Athletic grants-in-aid are offered in all of Pembroke State University's intercollegiate sports programs for both men and women upon recommendation of the head coach and approval of the Director of Athletics.

INTRAMURALS

The Intramurals Program believes that leisure physical activity and enjoyment are vital to a person's total well-being. Based upon this belief, the intramural program provides a broad and diversified program of recreational sport activities for the University's students, faculty, and staff.

The Pembroke State University student has opportunities for participation in over a dozen intramural activities, and if that is not sufficient recreational opportunity, there are also recreational swimming, weight lifting, and fitness activities.

CULTURAL PROGRAMS

There are many opportunities for cultural enrichment at Pembroke State University. The University Theatre produces three main-stage plays each year plus numerous studio theater productions in the Givens Performing Arts Center. The Music Department contributes programs of the Band, the Concert Choir, and the ever popular Jazz Ensemble the Singers and Swingers. The SEASON provides 6-10 professional touring groups each year. Also, student and faculty art shows are displayed in Locklear Hall and the James B. Chavis University Center.

CO-CURRICULAR ACTIVITIES

The Pembroke State University community believes that students should become actively involved in the co-curricular activities of their University. This involvement should be an important part of the students' campus life. The administration at Pembroke State is dedicated to providing the student body with a variety of activities that will complement the academic program.

Band is open to all students regardless of major. The band appears in festivals in addition to a regularly scheduled series of concerts. Credit is available through the Music department.

Cheerleaders are selected through competition. In addition to cheering at athletic events, the Cheerleaders are campus leaders in promoting school spirit.

Concert Choir is open to all students regardless of major. The Concert Choir is a large mixed vocal organization that specialized in performing works of a serious nature as well as light classics. The Concert Choir appears before campus groups and local groups, and represents the University on tours. Credit is available through the Music department.

The Indianhead is the University yearbook. All students are eligible to work on the staff. Credit is available through the Communicative Arts department.

Jazz Choir (The Singers) is open to all students regardless of major. The Jazz Choir is a mixed-voice ensemble which specializes in performing popular songs before campus groups and local civic organizations, and it goes on tours. Credit is available through the Music department.

Jazz Ensemble (The Swingers) is open to all students regardless of major. The Jazz Ensemble is an instrumental ensemble which specializes in performing popular music and modern jazz arrangements before campus groups and local civic organizations, and it goes on tours. Credit is available through the Music department.

Pep Band is open to all students regardless of major. It specializes in performing at University athletic contests and other special occasions. Credit is available through the Music department.

The Pine Needle is the student newspaper. All students are eligible to work on the staff. Credit is available through the Communicative Arts department.

The PSU Gospel Choir is open to all students with an interest in singing and promoting spiritual growth and inspiration.

The University Theatre is a dramatics organization which offers members the opportunity to appear in plays and to engage in play productions. All students are eligible.

WPSU-Television

Pembroke State University operates WPSU-TV, a cablecasting facility that serves Pembroke, Lumberton, Charlotte, Greensboro, Rockingham, Hamlet, Fayetteville, Hope Mills, and Spring Lake. WPSU-TV is operated completely by university students and also supports the academic program in Broadcasting by providing a working laboratory for practical experience. Credit is available through the Communicative Arts department.

CAMPUS CLUBS

Angel Flight/Silverwings serves as a service group to the campus and the community. It also serves as a link between the civilian and military sectors.

Applied Sociology Club consists of students interested in practical applications of the science of sociology such as community development and town planning, occupational guidance and vocational rehabilitation, etc. It is open to all students.

Arnold Air Society is a society within the Air Force ROTC for those who want to excel within the program. It promotes interaction between the cadets and other non-military groups as well as promoting a better understanding of the Air Force by the community.

Biology Club membership is open to all students who have a genuine interest in the natural sciences. Members become more familiar with all the phases of the bio-

logical world and learn more about scientific processes. They also gain experience in scientific literature, lab and field research and preparation for graduate study.

Black Student Organization is open to all students. Its primary purposes are to foster the idea of Black identity, promote the true spirit of Black unity, and insure effective participation in decision-making processes that affect the organization's members.

Campus Association of Social Workers is open to any student interested in social work.

Chemistry Club is an organization to explore the broad field of chemistry and the physical sciences in order to enhance the educational interests of its club members. Any PSU student or faculty member interested in chemistry and/or the physical sciences may participate.

Circle K Club is sponsored by the Pembroke Kiwanis Club and is open to all students. Its purposes are: to emphasize the advantages of the democratic way of life; to provide the opportunity of leadership training in service; to serve on the campus in the community; to encourage participation in group activities; to promote good fellowship and high scholarship; to provide a practical means to form enduring friendships, to render altruistic service, and to build better communities.

Communicative Arts Club is an organization to promote the communicative arts - broadcasting, theatre arts, literature, public relations, foreign language, and journalism - in the university, community and in the nation.

Euclidian Mathematics Society is open to all students interested in mathematics.

Geography Club is an organization to promote awareness of all areas encompassed within the field of geography.

Health Careers Club is open to all students. Its primary purpose is to promote awareness and interest in all areas of the health professions and to promote campus and community service projects.

History Club is an organization which promotes an awareness of the history of the University, community, and country. Membership is open to all students who have a true interest in history and wish to support the club.

International Affairs Organization is an organization which promotes the study of international political relations, fosters intercultural understanding, and encourages participation in various academic activities.

International Student Club provides for recreation and general assistance to foreign students in adjusting to American college life.

Native American Student Organization is open to all students. Its primary purpose is to create an awareness of and concern for the Native American.

Pembroke Raiders is an organization to promote the Army program and stimulate the interest of potential ROTC students. Open to students who are interested in working with the ROTC program and cadets. You do not have to be enrolled in ROTC but must have a GPA of at least 2.0 or above.

Physical Education and Recreation Club (PERC) is open to all physical education and recreation majors and minors who are interested in the purposes and ideas of health, physical education, and recreation education.

Political Science Club is open to all students majoring in any curriculum offered by the Political Science Department.

Prancers is a dance team open to all students. They offer opportunities to explore different types of dance, including Jazz and Modern, and basic elements such as tap and ballet. The team represents the university by performing dance routines for campus events or by special invitation off campus with approval of the advisor.

Psychology Club is an organization open to all majors and minors in the field of Psychology. Its primary purpose is to promote awareness and interest in all areas of the Psychology professions.

Que Essence is an organization formed to promote womanhood, perseverance, scholarship and sisterhood. Must have a 2.0 GPA, be highly motivated and project a positive attitude.

University Players is a dramatics organization which offers members the opportunity to appear in plays and to engage in play productions.

HONORARY ORGANIZATIONS

Alpha Chi is a National Honor Society. Membership is comprised of the top ten percent of the junior class and the top five percent of the senior class.

Alpha Epsilon Rho is an organization to recognize outstanding scholarship and broadcasting skills of telecommunication's students and to attract attention to the program.

Alpha Phi Sigma is a national criminal justice honor society formed to promote academic excellence among students majoring in the field of criminal justice.

Alpha Psi Omega the national dramatics fraternity open to those who excel in dramatics.

Marshals of Pembroke State University are elected by joint committee of faculty and students. The Marshalls officiate at Graduation and many University functions. Any student with a minimum 3.0 grade point average can apply.

Phi Alpha Theta is a history honor society to promote a historical interest in the University, community, and country. To be eligible, a student must be a history major with at least 3.1 GPA in history courses, have a minimum of 12 hours in history, and rank in upper 35% of class.

Psi Chi is a national honor organization to advance the science of psychology and to encourage, stimulate, and maintain the scholarship of individual members in all fields, particularly psychology.

Sigma Tau Delta is a national English organization designed to offer majors and faculty members in communicative art an opportunity to share ideas, to bring speakers to campus, and to enhance student-professor relationships. Membership is open to students with a 3.0 average and a 3.2 average in Communicative Art courses.

Sociology Honor Society is open to those students with an overall 3.0 GPA who are interested in the study of society.

PROFESSIONAL ORGANIZATIONS

Council of Exceptional Children is a professional organization for students, parents, and professionals who are interested in or work with any handicapped or gifted children. Membership is open to all PSU students.

Criminal Justice Club (Lambda Alpha Epsilon) is open to all PSU students interested in promoting awareness of all areas encompassed by the criminal justice system.

National Art Education Association is open to any full or part-time undergraduate student not actually involved in the teaching of art for pay. The purpose of the chapter is to promote the values of art in the community and schools.

Phi Beta Lambda is a national organization open to all students majoring in business or business administration. Its purpose is to increase student knowledge, while giving them the opportunity to develop business skills.

Phi Mu Alpha Sufonia is a national music fraternity to encourage and promote the highest standards of creativity, performance, education, and research in music in America. Must have a 3.0 GPA in the major and a 2.5 overall.

Public Relations Student Society of America is an organization to encourage the understanding of current theories and procedures in the practice of public relations; to provide students of public relations with the opportunity to become acquainted not only with peers but with professionals as well, to encourage students to adhere to the highest ideals and principles of the practice of public relations.

Student National Education Association is a division of the North Carolina Association of Education and is the state affiliate of the National Education Association.

RELIGIOUS ORGANIZATIONS

Religious organizations serving the Pembroke State University campus provide opportunities for spiritual enrichment, social activities, and religious service. They seek to integrate spiritual values, intellectual pursuits, and personal development.

The Baptist Student Union (BSU) is a student-led organization that is open to students from any denominational or religious background. The BSU has a weekly fellowship meeting called "AGAPE" which meets on Tuesday nights at 6:30 p.m. in "The House," a BSU facility which is located across from the Givens Performing Arts Center. The House is owned and operated by the North Carolina Baptist State Convention and houses offices for the Baptist campus Ministries at PSU as well as the Baptist Student Center.

Fellowship of Christian Athletes (FCA) is a student organization which meets twice a month for fellowship and devotion. It is open to all interested students.

PSU Catholic Community is a ministry sponsored by Roman Catholics and is open to all students.

Methodist Campus Ministry is an organization that serves to aid students in their educational pursuits and undergird them with a spiritual support through developing a support group of spiritual enrichment.

INTER-FRATERNITY COUNCIL

The purpose of the Inter-Fraternity Council is to develop and maintain fraternity life and interfraternity relations at a high level of accomplishment. It is a service organization whose primary goal is to promote the growth and well-being of all fraternities.

The member organizations of the Pembroke State University Inter-Fraternity Council are:

ALPHA OMEGA UPSILON was chartered at Pembroke State University in 1969 and is a local fraternity.

PI KAPPA PHI was chartered at Pembroke State University March 24, 1973, as Delta Kappa Chapter. Pi Kappa Phi has more than 115 national chapters throughout the United States.

TAU KAPPA EPSILON was founded in 1899 at Illinois Wesleyan University. It represents the largest social fraternity in the United States with over 300 active chapters. The Omicron Delta Chapter was chartered at Pembroke State University in 1983.

PANHELLENIC COUNCIL

The Panhellenic Council is the governing body of the a sororities. The sororities function as social organizations dedicated to enhancing the quality of life on campus. Each sorority supports a philanthropic project each year. The sororities are:

THETA KAPPA is known for making special visits to the Cancer Home, just outside of Lumberton. It promotes sisterhood and is located on the sixth floor of North Hall.

SIGMA SIGMA SIGMA Sorority was founded April 20, 1898 at Woodstock, Virginia. The Delta Theta Chapter at PSU was founded on April 6, 1974. Another name for Sigma Sigma Sigma is the Tri-Sigma Sorority. Each year the sisters of Tri-Sigma sponsor a Halloween Party for the children of the Lumberton and Laurinburg Hospitals, and the Odom Home. Also, they sponsor an "All School Christmas party" every year in the lobby of North Hall. The Sigmas are involved in several other campus activities and community projects throughout the year.

ZETA TAU ALPHA was founded in 1898 at Longwood College in Farmville, Virginia by nine young women. The chapter at PSU was chartered on September 7, 1973.

The sorority is both a social and service oriented group. Its national philanthropy is the National Association of Retarded Citizens (NARC). During the year, many other service projects as well as social functions are held also. Zeta strives in intensifying friendship, fostering a spirit of love, and promoting happiness.

WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES

Students selected for inclusion in this publication are chosen by a joint faculty-student committee and are judged on their total contributions to the University rather than their academic achievements alone.

MISS PSU AND MISS HOMECOMING

Miss Pembroke State University is selected by a panel of professional judges at a pageant held on campus during the fall semester. The Miss PSU Pageant is a preliminary to the Miss North Carolina pageant. Miss Homecoming is selected by popular vote of the student body during the spring semester.

STUDENT HOUSING INFORMATION

All freshmen and sophomores are required by University regulations to live on campus until they earned 60 semester hours unless exempted prior to registration. An Application for Campus Housing MUST BE COMPLETED BY EVERY FRESHMAN AND SOPHOMORE STUDENT entering Pembroke State University and by all other students who plan to live on campus.

An application for on-campus housing can be obtained from the Director of Student Housing, Pembroke State University, Pembroke, N.C. 28372. Room assignments are made in August preceding the fall semester and in December preceding the spring semester. Exemption requests will be considered and ruled on by the Housing Office. Students will be notified of the decision within ten days of their action.

At Pembroke State University housing is an integral part of the educational program. Residence halls are considered to be more than merely places to sleep: they are, "home" for a few years for many students. The University's aim is to provide residence halls that offer an environment conducive to studying and to provide an opportunity for each student to develop socially and academically. Especially mature, well-qualified students are employed as hall counselors. Hall counselors have many duties; however, one of their primary duties is to extend the services of the Counseling and Testing Center into each room. The Residence Hearing Boards, elected by the residents, make the residence halls essentially self-governing.

Residence halls are located within walking distance of all campus facilities including classroom buildings, library, cafeteria, snack bar, student union, bookstore, post office, and recreational facilities. A wide selection of campus recreational facilities and programs are available to all students. Students are encouraged to become involved in the different activities and student organizations on campus.

In order to reserve a room on campus, an application for housing and a \$75 housing deposit should be mailed to: Director of Housing, Pembroke State University, Pembroke, N.C. 28372. The deposit protects the student's room reservation until he or she either graduates or terminates his or her stay on campus and is refunded provided the procedures listed below are followed.

Housing Deposit

1. Incoming new students: The University will refund all but \$25 of the room deposit if written notice of cancellation is received by August 1st, preceding the fall semester, and by December 1st preceding the spring semester. After these dates the deposit is non-refundable. Applicants who are not accepted for admission will receive a full refund of their deposit.
2. Established residents: The \$75 housing deposit (less damages) will be refunded provided that the resident submits written cancellation by November 15th, preceding the spring semester, and by April 15, preceding the fall semester.

SUMMER HOUSING

Room and Board are available during both terms of the Summer Session. A \$75 deposit is necessary to secure a room.

Use of Air Conditioners in Residence Halls

Personal air conditioners are permitted in the residence halls subject to the following conditions:

1. The Housing Office will be notified of the student's desire to have an air conditioner installed. Approval will be granted on a first-come, first-serve basis, *subject to the electrical capacity* of the residence hall suite or floor.
2. An advance payment of \$40 for each regular semester or five-week summer session is required for installation and utilities.
3. A maximum of 6,000 BTU's and 110V will be permitted.
4. Installation must be provided by University maintenance personnel upon notification by the Housing Office. Removal from windows will also be done by maintenance personnel.
5. The University will not be liable for damage or theft.

MARRIOTT FOOD SERVICE

Student meal plans are not transferable under any circumstances, and each student must attach a current resident dining validation sticker to their campus I.D.

If a student loses his other meal card, the Director of Food Service will issue a 7 day temporary meal card at a cost of \$2.00. An additional \$3.00 charge will be assessed if the I.D. is not found and a new validation sticker must be issued.

All meal plans are valid 7 days a week, except during summer session.

COUNSELING AND TESTING SERVICES

Counseling services, personal and/or academic, are provided for PSU students without cost. Personality type and interest inventories for increased self awareness and career planning purposes are available upon request. Students who are experiencing personal difficulties or who wish to increase their self-knowledge are encouraged to utilize these counseling/testing services. Students are seen by appointment, but students with immediate concerns will be seen on a walk-in basis when possible.

The Counseling and Testing Center is located on the second floor of the Chavis University Center.

STUDENT HEALTH CENTER

Pembroke State University is proud of its modern 22-bed infirmary, which provides 24-hour coverage. The Student health Center's professional staff is composed of a part-time medical Director Physician who is in the clinic each afternoon on Monday, Tuesday, Wednesday, and Friday and a full-time nursing staff. The Center provides a variety of medical and health services for all students.

N.C. Law requires that each student provide proof of immunizations. Any student who does not have the mandated immunizations and/or does not furnish the required medical statement within thirty (30)days of enrollment will be withdrawn from classes. The University has no authority to waive these requirements and/or give extension on

the thirty (30) day time limit. A medical history and physical examination form which includes the required immunization documentation must be returned as part of the admission requirement prior to enrolling. The required immunizations that must include month-day-year are:

- a. Three D.P.T. (Diphtheria-Pentussis-Tetanus) or T.D. booster within 10 years regardless of age of student
- b. Three O.P.V. (Oral Polio Vaccine) doses if student is less than age 18 years when enrolling
- c. One Rubeola (Red Measles) shot with live virus vaccine on or after first (1st) birthday (not required if age 30 or above)
- d. One Rubella (German measles) shot with live virus vaccine on or after first (1st) birthday, or positive titu date (not required if age 50 or above)
- e. T.B. (Tuberculosis) skin test and results within one (1) year. (If skin test positive then chest x-ray and results within one (1) year)

CAREER PLANNING AND PLACEMENT SERVICES

The Career Planning and Placement Center, located on the second floor of the Chavis University Center, exists to assist students and alumni with career planning and with seeking and securing meaningful full-time employment. Students are afforded the opportunity explore career opportunities with recruiters from a large number of business firms, government agencies, and school systems which conduct on-campus interviews during the school year. This office also maintains and makes available to students and alumni a library of resources related to careers, employers, salary trends, the job market, graduate and professional schools, and part-time and summer employment opportunities. Workshops are held for students seeking assistance in improving their job-seeking skills in interviewing and resume writing.

All students are urged to register with the Career Planning and Placement Center and to complete a credential file when they become seniors, regardless of whether they have an immediate need for the service. The student's credential file, a major service offered by this office, may include an unofficial copy of the transcript, personal data form, letters of reference from professors, and a résumé. Upon request by a prospective employer or registered student, a set of the student's credentials is sent to the employer by the Career Planning and Placement Center.

Students whose records are in the active file are recommended to prospective employers and notified of specific job opportunities which meet each candidate's geographic and career field preferences and for which the candidate is qualified to apply.

Placement services are available to students/alumni as follows: Active registrant's credentials are kept in the active file for three years at which time the file must be updated. If the file is not updated, it will become inactive. Inactive files are kept for a period of five years. Alumni may opt to reapply for the services offered by the Career Planning and Placement Center at any time.

The Director is available for counseling with registrants who need information about job opportunities.

DISCIPLINE

Pembroke State University is an institution for the education of men and women who expect to take their places as responsible, trustworthy citizens of their country. It takes for granted that students will not be guilty of improper conduct.

The aim of all discipline is two-fold: First, to develop self-control in the individual; and second, to protect the welfare of society. Students who cannot or will not comply with the few and simple rules governing the student body are subject to dismissal. The institution reserves the right to decline to register students whose past record is such as to indicate moral, scholastic, or general conduct unfitness. In addition to any costs for repair or replacement, penalties for vandalism will include a \$25 fine, social or residence life probation, or suspension from the University.

All students are expected to observe the rules and live by the general codes of conduct as stated above and enumerated in the Student Handbook. Students living on campus are expected to observe special rules applicable to resident students.

THE PEMBROKE STATE UNIVERSITY DRUG ABUSE EDUCATION AND PREVENTION PROGRAM

I. Introduction

Pembroke State University is committed to maintaining an environment that supports and encourages the pursuit and dissemination of knowledge. All members of the academic community share in the responsibility for protecting that environment by exemplifying high standards of professional and personal conduct. The University is dedicated to providing students, faculty and staff an environment to study, work and play that is drug-free. The illegal possession, sale or use of alcohol and other drugs by members of the academic community adversely affects the educational environment.

Consequently, the University has developed a comprehensive program of drug education, abuse prevention and intervention for all members of the academic community, including officers, employees, and students. All members of the University community are required to become familiar with the program and are invited to take advantage of the services provided and to encourage persons who may be drug abusers to take advantage of rehabilitation programs and counseling programs.

II. Alcohol/Drug Education Activities

An Alcohol Drug Abuse Prevention Team (ADAPT) was initiated at Pembroke State University in response to a growing awareness of the need to provide all members of the University community with comprehensive and coordinated drug-related education, prevention, and intervention services. The term "drugs" includes both legal drugs (i.e., alcohol, prescription drugs, over-the-counter drugs, nicotine, caffeine, etc.) and illegal drugs as covered by the Controlled Substance ACT (N.C.G.S. 90-86 et.seq.) ADAPT defines its efforts as "prevention, early intervention, rehabilitation referral, and education related to the

abuse of alcohol and the use and abuse of controlled, illegal, addictive, or harmful substances.”

The Alcohol and Drug Abuse Prevention Team (ADAPT) is chaired by a staff member of the Counseling and Testing Center. Team members represent significant expertise, experience, and interest in the areas of drug education and intervention; they include administrators, student affairs staff, health services representatives, faculty, students, and community resource people.

- A. The purpose of ADAPT is to coordinate activities that will encourage all students, faculty, and staff to:
 1. Value and maintain sound personal health and understand how alcohol and other drugs affect health;
 2. Respect laws and rules prohibiting drugs;
 3. Recognize and resist pressure to use drugs;
 4. Promote activities that reinforce the positive, drug-free elements of campus and personal life;
 5. Increase consciousness of the incompatibility of drug use and maximum achievements of personal and educational goals; and
 6. Make use of available campus and community counseling, medical, and rehabilitation resources in dealing with drug abuse problems.
- B. Programs and activities coordinated by ADAPT include:
 1. A presentation informing entering freshmen of the potential legal consequences, including both criminal law and university discipline, of drug use and/or abuse.
 2. An anonymous drug knowledge/use survey of Freshmen.
 3. A module of alcohol/drug information in all University Orientation 100 classes.
 4. A series of semi-structured, interactive “Living and Learning” programs held in the residence halls.
 5. An observance of National Collegiate Alcohol Awareness Week.
 6. Periodic scheduling of educational programs during the Wednesday Activity Period.
 7. A selection of on-campus movies that reflect alcohol and drug issues.
 8. Academic credit courses in drug abuse prevention and chemical dependency.
 9. Alternative programming, such as a “New Games” afternoon in the spring, which promotes fun that is drug-free.
 10. A University Wellness Program, directed by a faculty member, designed to promote “Wellness” of the University community.
 11. A range of special events, speakers, workshops, and programs throughout the academic year, designed to address alcohol and drug issues.
 12. Annual CPR training for residence hall counselors and supervisors; training open to other interested personnel, upon request.
 13. A procedure through which each division head of the University informs personnel under his/her supervision of the potential legal consequences,

including criminal action and university discipline, of drug use/and or abuse.

C. The Counseling and Testing Center provides several services:

1. Counseling for employees and students with emerging drug problems and referral for persons with more severe drug problems.
2. Adult Children of Alcoholics (ACOA) support group.
3. Drug awareness workshops for administrators, faculty, staff, residence hall advisors, and student groups.
4. Psycho-educational events in a variety of formats and settings, designed to address such concerns as alcohol and relationship issues self-esteem, basic drug information, co-dependency, and physical-emotional wellness.

III. Institutional Disciplinary Policy on Drugs

The illegal possession, sale, or use of drugs, including alcohol, will not be tolerated at the University. Violation of the University's policies related to drug abuse may result in sanctions which may include, but are not limited to, dismissal from employment or the termination of student status.

The following are the minimum penalties that shall be imposed for the particular offenses described below:

A. Trafficking in Illegal Drugs

- (1) For the illegal manufacture, sale or delivery of possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedule I, N.C. General Statutes 90-89 or Schedule II, N.C. General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualone), any student shall be expelled and any faculty member administrator or other employee shall be discharged.
- (2) For a first offense involving the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell or deliver, of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, (including, but not limited, marijuana, pentobarbital, codeine) the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. For a second offense, any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

B. Illegal Possession of Drugs

- (1) For a first offense involving the illegal possession of any controlled substance identified in Schedule I, N.C. General Statutes 90-89, or Schedule II, N.C. General Statutes 90-90, the minimum penalty shall be suspension from enrollment or from employment for a

period of at least one semester or its equivalent. The minimum penalty prescribed by State Personnel for employees that are subject to Personnel Act (SPA) is dismissal.

- (2) For a first offense involving the illegal possession of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, the minimum penalty shall be probation, for a period to be determined on a case-by-case basis. A person on probation must agree to participation in a drug education and counseling program, consent to regular drug testing, and accept such other conditions and restrictions, including a program of community services, as the Chancellor or the Chancellor's designee deems appropriate. Refusal or failure to abide by the terms of probation shall result in suspension from enrollment or from employment for any unexpired balance of the prescribed period of probation. The minimum penalty prescribed by State Personnel for employees that are subject to Personnel Act (SPA) is dismissal.
- (3) For second or other subsequent offenses involving the illegal possession of controlled substances, progressively more severe penalties shall be imposed, including expulsion of students and discharge of faculty members, administrators or other employees.

C. Possession and Consumption of Alcoholic Beverage Regulations

- (1) Student fees collected by the institution cannot be used to purchase alcoholic beverages.
- (2) Where alcoholic beverages are provided by student host organizations, all alcoholic beverages should be purchased by the host organizations at market value. A proportionate amount of alternative beverages must be provided.
- (3) Alcoholic beverages may be used only as complements to an event, not as a main focus.
- (4) Alcoholic beverages cannot be advertised as being present at any student activities event.
- (5) Student events at which alcoholic beverages may be consumed can be held only under circumstances in which the host organization demonstrates reasonable means of ensuring the safety of participants and adherence to State law. Each event must be approved by the Office of Student Affairs.
- (6) Kegs are not permitted in the residence halls.
- (7) Possession and consumption of beer, unfortified wine, and spirituous liquor is only permitted in a student's residence hall room, if the student is 21 years of age or older.

- (8) Pembroke State University continues to develop and implement additional policies, procedures, and programs which will promote the responsible use of alcohol by those students 21 years of age or older who choose to indulge in the use of alcoholic beverages.
- (9) Violation of University policy or state laws will result in disciplinary action. For minor offenses penalties will range from probation to loss of privilege to live on campus. Legal action will be taken in the more serious violations of university policy, such as vandalism, resulting from alcohol abuse.

D. Suspension Pending Final Disposition

When a student, faculty member, administrator, or other employee has been charged by the University with a violation of policies concerning illegal drugs, he or she may be suspended from enrollment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the Chancellor or, in the Chancellor's absence, the Chancellor's designee concludes that the person's continued presence within the University community would constitute a clear and immediate danger to the health or welfare of other members of the University community; provided, that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible thereafter.

- E. Penalties will be imposed by the University in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators, and other employees, as required by Section 502D(3) and Section 603 of the University Code, by Board of Governors policies applicable to other employees exempt from the State Personnel Act, and by regulations of the State Personnel Commission. Faculty should refer to section 3-4 of the Faculty handbook (due Process Before Discharge or The Imposition of Serious Sanctions). Students should refer to the Student Government Association Constitution in the Student Handbook, Article IV (The University Hearing and Appeal System). SPA staff should refer to the Personnel Manual, section 9, page 4 (Disciplinary Action, Suspension and Dismissal).
- F. The chancellor shall submit an annual report to the Board of Trustees on campus activities related to illegal drugs for the preceding year. A copy of the annual report shall also be provided to the President of University of North Carolina.

Students, Faculty and Staff are subject to all local, state, and federal laws relating to drug abuse. Action on the part of the University is based upon its right to carry out its appropriate mission and is not designed to be merely punitive. University action is not dependent upon and does not preclude criminal or civil action in the courts.

VEHICLE REGISTRATION

Each motor vehicle, including two-wheeled vehicles, driven or parked on the campus by students, faculty, or staff must be registered in the Business Office and must display a valid parking permit. These parking permits can be purchased in the Cashier's Office for a \$14 fee (valid for one year only).

Students, faculty, and staff members are all subject to traffic rules and regulations. It is each individual's responsibility to obtain a copy of the Traffic Rules and Regulations when he or she registers a vehicle in the Business Office. These regulations are strictly enforced by the campus police officers. Fines must be paid before any records can be released from the University.

It is a privilege and not a right for a person to keep or operate a motor vehicle on the campus of Pembroke State University. Each student, faculty, or staff member must agree to comply with the traffic rules and regulations before keeping or operating a vehicle at Pembroke State University. The University reserves the right to withdraw motor vehicle privileges from any person at any time.

Parking facilities on campus are limited and on many occasions there will not be sufficient parking spaces available to accommodate all vehicles in their respective legal parking zones. In such instances, the driver concerned IS NOT PERMITTED to park in an illegal or restricted zone.

THE TRAFFIC CONTROL COMMITTEE

A Traffic Control Committee is appointed each year by the Chancellor of the University. The Committee consists of six regular members: two students, two faculty, and two staff members.

The Traffic Control Committee operates as a policy advisory group and makes recommendations regarding traffic control, parking, vehicle registration, violations, and penalties. The recommendations of this Committee are subject to final approval of the Chancellor.



LOCKLEAR HALL

ART



Johnny
Rockets

ANGELES

DATA

PEMBROKE
STATE UNIVERSITY

STUDENT FINANCES
for
UNDERGRADUATE
PROGRAMS

TUITION AND FEES

Tuition and all fees are due and payable in full by registration day for each semester or summer term. Please make checks or money orders payable to Pembroke State University. **A returned check charge of \$15 will be levied on each return check.**

It is the policy of the administration and trustees to keep the cost of a college education as low as possible. The fees now in effect are, however, subject to change without notice. Since Pembroke State University is maintained by the people of North Carolina for the education of residents of the state, it is available to them at less cost than to nonresidents. The residency status of each student is determined at the time of original admission. See page 51 for further information on residency status.

Registration for any semester or session may not be completed until all special or extra fees, fines, payments for lost or damaged articles, etc., incurred in the previous semester or session, have been paid; no transcript nor record will be issued until all fees owed have been paid.

SCHEDULE OF UNDERGRADUATE EXPENSES PER SEMESTER REGULAR SESSION

(Includes Tuition and General Fees)

Semester Hrs.	In-State	Out-of-State
1	\$ 55	\$ 536
2	55	536
3	55	536
4	73	554
5	73	554
6	129	1,089
7	290	1,250
8	290	1,250
9	345	1,786
10	345	1,786
11	345	1,786
12 or More	400	2,321

ROOM AND BOARD

If a student lives on campus, add \$1,035 for room and board per semester. (Note: Women assigned to North Hall will pay an additional \$40 per semester because of air conditioning.)

Students may select a 15-meal plan, valid seven days a week, at a reduction of \$30 or a 10-meal plan, valid seven days a week, for a reduction of \$60 meal plan is mandatory for dormitory students, and changes will not be made after the first week of each semester.

Personal checks **should not be written** in excess of the cost of tuition and fees.

DETAILED EXPLANATION OF CHARGES:
TUITION
(Per Semester)

Tuition

North Carolina Residents.....	\$221
Out-of-State Residents.....	\$2,142
Students taking 12 semester hours or more must pay this amount.	

GENERAL FEES
(Per Semester)

Health Services	\$50
This fee is used to operate the University Infirmary. All regular students taking 7 semester hours or more are required to pay this fee. (Student Accident and Sickness Insurance is optional and not included in the fees.)	
Other Required Fees	\$129
This fee is used to support various University programs, such as Athletics, Band & Chorus, Dramatics, and Student Center. A portion of these funds is allocated to the Student Government Association to support Student Government activities including Yearbook, Newspaper, and the Performing Arts Series. All students taking 7 hours or more are required to pay this fee. Students taking 4 to 6 hours will pay a prorated amount.	

MISCELLANEOUS FEES

Application Fee	\$15
This fee is paid at the time of initial application, is non-refundable, and cannot be applied to meet any other charges.	
Graduate Fee (Undergraduate)	\$25
(Graduate)	\$35
This fee must be paid at the time the student makes application for graduation. It is used to pay for the cap, gown, and diploma. This is a non-refundable fee.	
Late Registration Fee	\$10
Students who register for classes after the scheduled registration date has passed must pay this fee.	
Change of Course Fee	\$2
Students who voluntarily drop or add courses after the first day of classes in any semester must pay \$2 for each course involved.	
Dormitory Deposit Fee (refundable)	\$75
Key Deposit	\$10
Dormitory Students must pay a key deposit for their post office box.	
Vehicle Registration Fee	\$14
A vehicle registration permit is valid for one full year, commencing August 15. Permits sold after May 31 and are \$7 and valid for Summer Session only.	
Transcript Fee	\$2
The initial copy of a transcript is free and each additional copy is \$2.	

REFUND POLICY

Please allow two weeks for the processing of any refund request.

Tuition and Fees

If a student officially withdraws from the University during a regularly scheduled registration period, (s)he will receive a full refund of tuition and fees, except for a registration fee of \$10. For withdrawal after the end of the registration period, refunds for tuition and fees, except registration fee, will be made on a pro-rata basis.

No refund will be made for individual courses dropped after the regularly scheduled registration period, except during summer sessions.

No refunds under any condition will be made after the midpoint of the semester.

No degree or transcript of credits will be furnished until all financial obligations to the University have been satisfied.

Room and Board

If a dormitory student moves out of the dormitory prior to the close of registration, the room deposit will be forfeited. Meals will be prorated on a weekly basis.

No refunds for housing or meals will be made after registration unless the student *officially withdraws* from the University. A refund will be prorated on a weekly basis. No refunds for housing will be made after mid-semester under any condition.

Dormitory Deposit

1. Students living in dormitory—The \$75 dormitory deposit (less breakage) will be refunded provided:
 - (a) The student has notified the Housing Office in writing on or before the first Monday after Thanksgiving Holidays that (s)he will not need the room for the following Spring semester, or,
 - (b) The student has notified the Housing Office in writing on or before April 15 that (s)he will not need the room for the following fall semester.
2. Incoming new students—The dormitory deposit will be refunded provided the Housing Office has been notified in writing by July 15 (or within 10 days after acceptance) that (s)he is cancelling the room reservation for the fall semester.

Exceptions will be made only for draft into the military, physical incapacitation, and academic ineligibility. In each situation, the Housing Office must be provided written proof. Failure to comply with the above will result in forfeiture of the room deposit.

TUITION WAIVER FOR PERSONS AT LEAST 65 YEARS OLD

Under the provision of Chapter 606, 1975 Session Laws, the Board of Governors at its meeting of September 12, 1975, adopted a resolution establishing rules permitting legal residents of North Carolina who have attained the age of 65 and who meet applicable admissions standards to enroll for courses tuition-free on a space-available

basis. The 1977 Session of the General Assembly enacted a law effectively re-establishing, but modifying, this tuition waiver privilege established in the 1975 Session for persons at least 65 years old. The 1977 law (Chapter 901, 1977 Session Laws) modified in 1975 law in two respects: (1) it established, rather than merely authorized establishment of, the privilege; (2) it required, rather than prohibited, the counting of these students in the computation of enrollment for State funding purposes. Questions concerning tuition waiver may be directed to the Office for Business Affairs, Pembroke State University.

FINANCIAL AID

Pembroke State University makes every effort within the limitations of its available financial aid resources and University and Federal regulations to provide assistance to students who, without aid, would be unable to begin or continue their college education. Financial assistance is available in the form of scholarships, grants, loans, and part-time employment.

Financial aid is awarded on the basis of academic achievement and demonstrated financial need. The first responsibility of financing a student's education rests with the student and the student's family. A student's parents are expected to contribute towards his or her expenses insofar as they are able from income and assets. A student is expected to provide funds for his or her own education through savings, summer work, and other resources. Each student is considered individually on the basis of the family financial situation. The financial need of a student is determined by the resources available to the student and the University expenses. Since a student's financial aid award reflects the student's financial situation, it is confidential information and should not be made public by the University, the recipient or anyone else.

All applicants for financial aid are required to complete the entire Financial Aid Form. These forms may be obtained from high school guidance counselors after January 1. The Financial Aid Form should be completed and mailed to College Scholarship Service, P.O. Box 6328, Princeton, NJ 08541 no later than March 15 to meet our priority date of April 15.

To be eligible to receive financial assistance, a person must be a U.S. Citizen or an eligible Non-citizen. A freshman or transfer student must meet all requirements for admission as a regular student (no restrictions or conditions to admission) to Pembroke State University. Returning students must be in good scholastic standing as defined in the FINANCIAL AID BROCHURE.

GENERAL SCHOLARSHIPS

*Indicates Endowed Scholarship

Academic Scholarship

The alumni and friends of Pembroke State University have provided funds to aid students who demonstrate above average academic ability and who are in financial need. The awarding of these scholarships is the responsibility of the Financial Aid Officer, with the approval of the Faculty Scholarship and Student Assistance Committee.

The Aetna Life and Casualty Foundation Scholarship

This scholarship is designed to help qualified students who, without such financial assistance, would possibly be unable to further their education. The scholarships are designed for academically talented students.

Alumni Endowed Scholarships*

The PSU Alumni Association through its Alumni Loyalty Fund awards scholarships to qualified incoming freshmen. Students are selected by the Admissions Office and must be sons or daughters of a PSU Alumni.

Morris L. Britt Kiwanis Scholarship

This scholarship is provided annually by the Kiwanis of Robeson Civic Club in memory of a long time Kiwanis member and Pembroke State University alumnus, Morris Lee Britt. The scholarship provides full tuition for the first year's study at Pembroke State to a graduate of Lumberton Senior High School who meets the qualifications of (1) proven scholarship, (2) extracurricular involvement, and (3) need. Priority is given to a student who also meets qualification standards for the Chancellor's Scholars program.

Josh Brooks Memorial Scholarship: see next section Department of Sociology, Social work, and Criminal Justice.

Dr. A.P. and Frances Dickson Scholarships

A Dickson Scholarship is awarded annually to a full-time undergraduate student who currently resides in Hoke County, North Carolina. Recipients are chosen by the financial aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the Trust.

James Boyer Ebert Scholarship: see next section Department of Biology.

Margaret S. Jones Endowed Scholarship*

This fund was established by friends of Pembroke State University in honor of Mrs. Margaret S. Jones, wife of former Chancellor Dr. English E. Jones, to aid students in obtaining their educational goals.

James Lee Love Scholarships

A Love Scholarship is awarded annually to a full-time North Carolina resident undergraduate student. Recipients are chosen by the financial aid office on the basic of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the Trust.

Reba M. Lowry Endowed Scholarship*

Established by Ira Pate Lowry in memory of his wife, Mrs. Reba M. Lowry, who served Pembroke State University for many years as Dean of Women and Chairman of the Department of Foreign Languages. Monies are awarded annually to a student based on scholarship and need.

William A. Roach Lumberton Rotary Club Scholarship

This is awarded annually to a resident of Robeson County who is in financial need, has demonstrated scholastic and leadership abilities, and is deserving. A status evaluation of his or her educational training will be provided by PSU. The scholarship is in memory of William A. Roach, a charter member of the Lumberton Rotary Club.

The R.E. Smith, Jr., and Cora T.Y. Smith Scholarship

This scholarship has been designated for an academically talented Native American student demonstrating financial need.

Southern Bell Scholarship

The Southern Bell Scholarship is awarded annually to students who demonstrate and maintain high academic standards. At the discretion of the Financial Aid Office, students will be selected who also have documented a need for financial assistance.

The Student Government Association Awards

The Student Government Association of the University provides some funds, earned through the rental of refrigerators to dormitory residents, for academic and athletic scholarships. The awarding of these scholarships is the responsibility of the Financial Aid Officer with the approval of the Faculty Scholarship and Student Assistance Committee.

C.M. and M.D. Suther Scholarship

A C.M. and M.D. Suther Scholarship is awarded annually to a full-time North Carolina resident undergraduate student on the basis of academic standing and financial need. Recipients are chosen by the Financial Aid Office. Awards are non-renewable and vary in amount according to income available from the trust.

The Earl A. and Ophelia Thomas Endowed Scholarship*

This scholarship is awarded annually to two academically talented Native Americans, one male and one female, who demonstrate a need for financial assistance.

West-Point Pepperell Alamac Knitting Division Scholarship

These scholarships are awarded to students who demonstrate above average academic ability and who are in need of financial aid to be able to continue their undergraduate education.

SCHOLARSHIPS: DEPARTMENTS AND SPECIAL PROGRAMS

*Indicates Endowed Scholarship

CHANCELLOR'S SCHOLARS PROGRAM

Morris L. Britt Kiwanis Scholarship see GENERAL SCHOLARSHIPS.

Chancellor's Endowed Scholarship*

This scholarship is awarded annually to a Chancellor's Scholar, and it will normally be renewed to the recipient as long as (s)he is in good standing at the University. However, the decision regarding renewal will be made annually.

Chancellor's Scholars Program Scholarship

All students qualifying for CSP scholarships receive \$442 per year for all four years of study. Chancellor's Scholars are selected on the basis of academic aptitude, achievement, motivation, and recommendation of the high school counselor.

Harry Hutchison Gibson Endowed Scholarship*

This scholarship is to be awarded annually to a Chancellor's Scholar, and it will normally be renewed to the recipient as long as (s)he is in good standing at the University. However, the decision regarding renewal will be made annually. The recipient of the Scholarship is to be recommended by the Director of the Chancellor's Scholar Program and approved by the Chancellor.

Kayser-Roth Foundation Scholarship

This scholarship is to be awarded annually to a Chancellor's Scholar, and it will be renewed to the recipient as long as (s)he is in good standing at the University.

DEPARTMENT OF AMERICAN INDIAN STUDIES**Pembroke Chamber of Commerce Endowed Scholarship***

This scholarship was established by the Pembroke Chamber of Commerce and is to be awarded to qualified students majoring in American Indian Studies.

Adolph L. Dial Endowed Scholarship*

This scholarship is awarded annually to a Pembroke State University student majoring in American Indian Studies. The recipient of the scholarship is named by the Chairman of the Department of American Indian Studies.

DEPARTMENT OF ART**Gene Locklear Endowed Scholarship in Art***

This scholarship is awarded annually to an Art major. The recipient is selected on the basis of artistic ability and need.

DEPARTMENT OF BIOLOGY**James Boyer Ebert Scholarship**

Funded by anonymous donors to honor Professor James B. Ebert, this scholarship is awarded annually to a pre-med or para-med student who is committed to a career as a medical/science professional. Consideration will also be given to deserving, highly qualified non-science majors whose attitudes exhibit inclinations for hard work, achievement, and humanitarian purposes.

The Grace Loving Gibson Endowed Scholarship*

Established by students and friends of Grace E.L. Gibson, who taught composition, literature, journalism, and creative writing (1966-1986) in the Communicative Arts Department of Pembroke State University, the scholarship is awarded to a talented student writer majoring in communicative arts who has demonstrated creativity and ability in communication. The recipient will be chosen by a faculty committee from the Communicative Arts Department.

DEPARTMENT OF COMMUNICATIVE ARTS

The James A. Comstock Memorial Scholarship

This scholarship is awarded annually to students majoring in the field of Broadcasting, with concentration in Broadcast Engineering and Operations. Students are assigned responsibility in telecommunications with WPSU and are prepared for positions as video engineers and operations specialists.

The John Green Memorial Endowed Scholarship*

Established in 1984 and endowed by generous contribution from *The Robesonian*, family members, and friends of the late John Green ('84), this scholarship is given to a capable and energetic student who wishes to pursue a career in writing. It will be awarded to a student majoring in History, Journalism, or Creative Writing. The recipient will be chosen by a faculty committee from the History and Communicative Arts departments.

DEPARTMENT OF EDUCATION

John J. Brooks Memorial Endowed Teacher Scholarship*

Established by the Brooks family in memory of John J. Brooks who was an alumnus of the institution and a teacher in the Native American schools of Robeson County for many years. He was concerned that his people have an opportunity to further their education. The scholarships are first awarded to incoming Native American freshmen majoring in education and selected by the Scholarship Committee on the basis of academic promise, motivation, humanitarianism and financial need. The recipients must make satisfactory progress towards teacher certification and obligate themselves to teach a specified number of years in the public schools of Robeson County.

Pearlie Locklear Endowed Memorial Scholarship*

Awarded annually to a Native American student majoring in Early Childhood Education, this scholarship is made possible by gifts from the Pearlie Locklear Family. The recipient will be selected on the basis of academic achievement and financial need. The scholarship may be renewed as long as the recipient is in good standing at the University.

Purnell Swett Endowed Teachers' Fellowship Award*

Established by the Robeson County Indian Education Parent Committee, in honor of Purnell Swett, Robeson County School Superintendent, 1977-1989. An annual cash award of \$500 will be given to each of two outstanding American Indian graduating seniors majoring in teacher education and selected by the Teacher Fellowship Award Committee. The recipients make a two-year commitment to teach in the Public Schools of Robeson County.

Very Special People Supporters Special Education Scholarship

This full-semester tuition scholarship is awarded annually to a promising special education major who is a North Carolina resident. This fund was established by parents of special-needs children to encourage caring and competent students to work with people with handicaps.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION**Kenneth P. Johnson Endowed Scholarship***

This scholarship is awarded annually to a Pembroke State University Student majoring in Health, Physical Education, and Recreation. The recipient is chosen by the faculty of the Health, Physical Education, and Recreation Department.

Willie D. Mayes, Jr. Memorial Endowed Wrestling Scholarship*

This scholarship is endowed by the fellow students, teammates, relatives, and fraternity brothers of the late Willie Mayes. The scholarship is awarded based on need to a rising sophomore, junior, or senior wrestler who most exemplifies Willie's leadership and determination. The recipient is selected by a committee headed by the wrestling coach.

DEPARTMENT OF HISTORY**William R. Bullard Scholarship**

Awarded each year to a History major, this scholarship is made possible by a gift from William R. Bullard, Professor Emeritus of History. The recipient is chosen by the faculty of the History Department.

The John Green Memorial Endowed Scholarship*

Established in 1984 and endowed by generous contributions from *The Robesonian*, family members, and friends of the late John Green ('84), this scholarship is given to a capable and energetic student who wishes to pursue a career in writing. It will be awarded to a student majoring in History, Journalism, or Creative Writing. The recipient will be chosen by a faculty committee from the History and Communicative Arts departments.

Lela Butler Haynes Scholarship

Awarded each year to a History major, this scholarship is made possible by a gift from Loren L. Butler, II, Assistant Professor of History, in memory of his mother. The recipient is chosen by the faculty of the History Department.

Clifton Oxendine Memorial Endowed Scholarship*

This scholarship was established to honor the late Clifton Oxendine, who served Pembroke State University from 1939 to 1970, first as Dean of the College and then as Professor of American History. This scholarship is awarded annually to an American Indian student majoring in American History. The recipient will be selected by the faculty of the History Department on the basis of academic achievement.

Max M. Weinstein Memorial Scholarship

This scholarship is awarded annually to a history major selected by the faculty of the History Department. The recipient is selected on the basis of scholarship and need.

DEPARTMENT OF MUSIC**A. J. Fletcher Music Scholarship**

This award is given annually to qualified freshmen and/or music students in their second or third year of study. The selection is made by the chairman of the Music Department and members of the Music Faculty Scholarship Committee.

Doris B. Johnson Endowed Scholarship*

This scholarship is awarded annually to a music major who is active in the Music Educators National Conference. The recipient is chosen by the Music Department Scholarship Committee.

Ira Pate Lowry Music Scholarship

This scholarship is awarded annually to a music major selected by the Music Department Scholarship Committee and presented by the committee chairman. The recipient is selected on the basis of musical talent, scholarship, and need.

Singer-Swinger Scholarship

A fund was established by the Singers and Swingers to provide financial assistance to students who are enrolled in one or more of the music performing groups on the Pembroke State University campus. These scholarships are awarded by the Music Department Committee on the basis of financial need, talent, and the needs of the University. The Music Scholarship Committee is made up of four faculty and three student members.

DEPARTMENT OF PHYSICAL SCIENCE**James Boyer Ebert Scholarship**

Funded by anonymous donors to honor Professor James B. Ebert, this scholarship is awarded annually to a pre-med or para-med student committed to a career as a medical/science professional. Consideration also will be given to deserving, highly qualified non-science majors whose attitudes exhibit inclinations for hard work, achievement, and humanitarian purposes.

DEPARTMENT OF POLITICAL SCIENCE**Walter L. Weisberg Memorial Endowed Scholarship In Political Science***

This scholarship was established by the Weisberg family in memory of Walter L. Weisberg, a professor of Political Science at Pembroke State University, 1975-1981. Recipients of the scholarship are selected by the faculty of the Political Science Department on the basis of academic achievement.

DEPARTMENT OF PSYCHOLOGY**Jetter Bernard Locklear Memorial Endowed Scholarship***

Established in 1988 by friends, family members, and Mrs. Francine Locklear in memory of her husband, this scholarship is awarded annually to an academically talented, economically disadvantaged Native American, who is pursuing a degree in

the Human/Social Services. The recipient of the scholarship will have declared a major in Psychology, Sociology, or Social Work, and will be nominated by a Faculty Scholarship Committee representing these fields of study.

DEPARTMENT OF SOCIOLOGY, SOCIAL WORK, AND CRIMINAL JUSTICE

Beverly Enterprises/Kingsdale Manor Scholarship

This annual scholarship is offered to a junior majoring in Social Work with a concentration in Gerontological Social Work. Students are eligible to apply for this scholarship by being hard-working, and by expressing an interest in, and demonstrating an aptitude for social services for the elderly. The student is expected to complete his/her Senior Internship at Kingsdale Manor in Lumberton. The student will be selected by the Director of the Social Work Program and a representative of Beverly Enterprises/Kingsdale Manor.

Maurice Bodenstein-Holocaust Memorial Endowed Scholarship In Social Work*

This scholarship is given annually to a social work major for the purchase of textbooks. The faculty in social work will recommend a junior student, based on merit; the department chairman will confirm the award. This award honors the memory of Maurice Bodenstein, who survived the European death camps in World War II. After liberation, he became a social worker, assisting youngsters who survived the Holocaust. He helped them recover optimism and self-respect.

Josh Brooks Memorial Scholarship

This scholarship is offered to any Native American student pursuing a career in medicine or the health sciences. Selection of the recipient is made by a representative of the Children's Transplant Association from faculty nominations.

The David Osterneck Memorial Scholarship in Medical Sociology

This scholarship is awarded to undergraduate students preparing for careers in public health, medical social work, social epidemiology and allied medical professions.

Issac Shain Memorial Scholarship

This award is given yearly by Arthur Shain in memory of his father, Issac. It is awarded to an individual student in the Department of Sociology, Social Work, and Criminal Justice for outstanding academic performance.

The Kayla Leigh Smith Memorial Scholarship

This annual scholarship was established by the Children's Transplant Association in memory of Kayla Leigh Smith, an infant from Robeson County, who died after undergoing a liver transplant in 1986. This scholarship is awarded on the basis of academic desire and financial need to upper-division students majoring in Social Work with an expressed interest in medical social work. The recipient is chosen by the faculty of the Social Work program and a representative of the Children's Transplant Association. The scholarship will be offered for the fall and the spring semesters.

The Mary Bradley Snead Scholarship in Social Work

This is an annual Social Work Scholarship offered by Southeastern Family Violence Center. The Scholarship is awarded to an rising senior who has demonstrated sensitivity to women's issues and who will complete the senior internship at Southeastern Family Violence Center. Ethnic minorities are given priority. The recipient is screened by the Social Work Faculty and is selected by the Director of Southeastern Family Violence Center.

ARMY ROTC PROGRAM**Faye Nye Lewis Endowed Scholarship***

This scholarship is awarded annually to a sophomore ROTC candidate who has completed his or her freshman year as a Reserve Officers Training Corps (ROTC) student. It will be based on overall achievement as judged appropriate by the ROTC Commander and a faculty committee. The selection must be approved by the Vice Chancellor for Academic Affairs.

GRANTS**North Carolina Tuition Grants**

Funds for tuition grants, allocated by the North Carolina Legislature, are made available on an annual basis to residents of North Carolina in attendance at Pembroke State. These grants are limited to basic tuition costs.

Pell Grants

This program is for students who have financial need. The U.S. Government fixes the amount of financial assistance a student may receive under the Pell Grant on the basis of need. These grants are awarded upon enrollment in good standing in an institution of higher education. Applications are available in the University's financial Aid Office and any high school guidance counselor's office. To apply for a Pell Grant a student must complete the appropriate application and indicate in the appropriate section that (s)he wants to be considered for a Pell Grant. A Student Aid Report will be sent to the student's home address. The student must submit all copies of the Student Aid Report to the Financial Aid Office whether or not (s)he is eligible for a grant.

Supplemental Educational Opportunity Grants

The purpose of this program is to provide Supplemental Educational Opportunity Grants to students who have demonstrated need and who would be unable to enter or remain in college without such assistance. Recipients must show academic or creative promise. The grant may be renewed for each year of under-graduate study for a period of up to four years if the student continues to qualify for assistance. Students must reapply each year.

North Carolina Student Incentive Grant Program

This program is administered by College Foundation, Inc. Funds are provided to the Foundation by the North Carolina State Education Assistance Authority under the 1965 Higher Education Act, as amended, from state and federal appropriations. To qualify for a North Carolina Student incentive Grant (NCSIG), a student must be a legal resident of North Carolina, be accepted for enrollment as a regular student or be enrolled full-time in good standing in an undergraduate program, and must demonstrate a "substantial financial need" as determined through the need analysis system of College Scholarship Service or American College Testing Program. Grants are based on an individual student's demonstrated need in relation to resources and the cost of education, but may not exceed \$1,500 per academic year.

To apply for NCSIG, the student's parents and/or the student and spouse must complete the Financial Aid Form (FAF), check Item 79, include the appropriate fee, and mail it to the processor no later than March 1. All North Carolina residents are encouraged to apply for this grant.

All students applying for the NC Student Incentive Grant must also apply for the Pell Grant.

Vocational Rehabilitation Scholarships

Students who have physical disabilities which constitute vocational handicaps are eligible for scholarships from the North Carolina Vocational Rehabilitation Department. For information, qualified students should write to the Department of Vocational Rehabilitation, Raleigh, North Carolina.

Minority Presence Grant Program

Under the Board of Governors general Minority Presence Grant Program, Black students may be eligible for special financial assistance if they are residents of North Carolina, enrolled for three or more hours of degree credit course work, and demonstrate financial need.

American Indian Student Legislative Grant Program

Established by the NC General Assembly, this program provides assistance for resident North Carolina Indians who demonstrate financial need according to federal guidelines. Recipients must be enrolled at least half time in a regular degree-seeking program and maintaining satisfactory academic progress.

LOAN FUNDS**Perkins Loan**

Assistance is available in the form of loans which bear no interest while the student is enrolled at least half-time in an institution of higher education. Interest begins to accrue at the rate of five (5) percent and payment begins nine months after the borrower ceases to be enrolled in at least a half-time course of study. Repayment may be extended over a period of ten years as long as a minimum repayment of \$30 per month or \$90 per quarter is made.

Loans are made to entering freshmen and transfer students who are enrolled as regular students and to returning students who are in good academic standing and who can demonstrate financial need. The Perkins Loan program is funded by the federal government.

N.C. State Scholarship Loan Fund for Prospective Teachers

Students desiring loans of this type should make applications to the North Carolina State Department of Public Instruction, Raleigh, North Carolina. This fund provides as much as \$2000 per year in financial aid for a prospective teacher. Repayment of the loan is canceled for recipients who teach four years in North Carolina public schools.

Memorial Emergency Loan Fund

This is a revolving loan fund. This fund was established through the efforts of Mr. Lacy Maynor, a former Judge of Recorders Court.

Herbert G. Oxendine Memorial Emergency Loan Fund

This fund was established by friends of the late Dr. Herbert G. Oxendine who for many years taught at Pembroke State University. Because of Dr. Oxendine's great interest in education and in Pembroke State University, it was the desire of his many friends to establish a fund in his name to aid students in furthering their education.

James Fulton Lowry Memorial Emergency Loan Fund

The Fund was established in memory of one of Pembroke's business leaders. Mr. Lowry, for many years, was President of the Pembroke State University Alumni Association. It was his desire that every student who wanted to further his education be given the opportunity to do so.

Steve Brooks Memorial Emergency Loan Fund

Mrs. Lela H. Brooks established this fund as a memorial to her dearly beloved son Steve. He was killed in a tragic automobile accident in 1962 while a Senior at Pembroke State College. Mrs. Brooks was concerned that the children of other mothers be able to stay in school and graduate in spite of financial problems.

L.W. Jacobs Memorial Emergency Loan Fund

The Mt. Airy and Harpers Ferry Baptist Churches established this fund in honor of Rev. L.W. Jacobs who served this community for over half a century as a pastor and who served as Chairman of the Board of Trustees of Pembroke State University for over thirty years. Rev. Jacobs was keenly aware of the financial problems many students face as they endeavor to continue their education and he believed that all qualified people should be afforded an educational opportunity.

Robert T. Stafford Student Loan Program (Formerly Guaranteed Student Loans)

The Stafford Loan Program in North Carolina is administered by College Foundation, Inc., Raleigh, North Carolina. To obtain an insured loan, a student must

complete the Financial Aid Form to establish eligibility on the basis of financial need. Repayment of these loans begins six months after a student ceases to be enrolled at least half-time. The interest begins at the time of repayment and is calculated at eight (8) percent until the end of the fourth year of the repayment period and then ten (10) percent beginning with the fifth year of repayment for new borrowers who have no outstanding balance on Stafford Loans.

Students interested in obtaining a loan under this program may obtain information from College Foundation, Inc., P.O. Box 12100, Raleigh, NC 27605.

Out-of-state students should contact their bank or state higher education assistance concerning state administered guaranteed student loan programs. Addresses are available in the Financial Aid Office.

STUDENT EMPLOYMENT

The student employment programs help eligible students pay University expenses while attending classes full time. Students participating in the programs are employed with the Maintenance Department, Library, Cafeteria, Switchboard, Administrative and Departmental Offices, and Laboratories.

The student employment programs consist of the University Self-Help Program and the College Work-Study Program, which is a federal assistance program. To participate in the programs, a student must have a completed application for aid on file in the Financial Aid Office.

A student's work schedule will depend upon class schedules and can be arranged by the student and the student's work supervisor. These jobs provide learning opportunities as well as financial aid.

VETERANS

Veterans who enter the University under Chapter 31, Title 38, U.S. Code, Vocational Rehabilitation for Disabled Veterans, and have the approval of the Veterans Administration will have their University fees paid directly to the University by the U.S. Government.

Veterans eligible for the G.I. Bill, Chapter 30, Title 38, U.S. Code effective October 19, 1984, and Chapter 32, Title 38, United States Code, effective January 1, 1977, must make application for their benefits. For information regarding eligibility, or application forms, contact the Veterans Administration, Regional Office, 251 North Main Street, Winston-Salem, North Carolina or the Financial Aid Office, Pembroke State University. Transfer students on the G.I. Bill should complete VA Form 21E-1955, Request for Change of Program or Place of Training, prior to the time they plan to transfer.

Once the veteran is enrolled, (s)he must attend classes regularly to continue receiving benefits. Each veteran will complete an attendance roster bimonthly and file with the Financial Aid Office on campus. This will be checked by the Financial Aid Office to assure the VA Regional Office that veterans remain eligible for benefits.

NC National Guard, Chapter 106

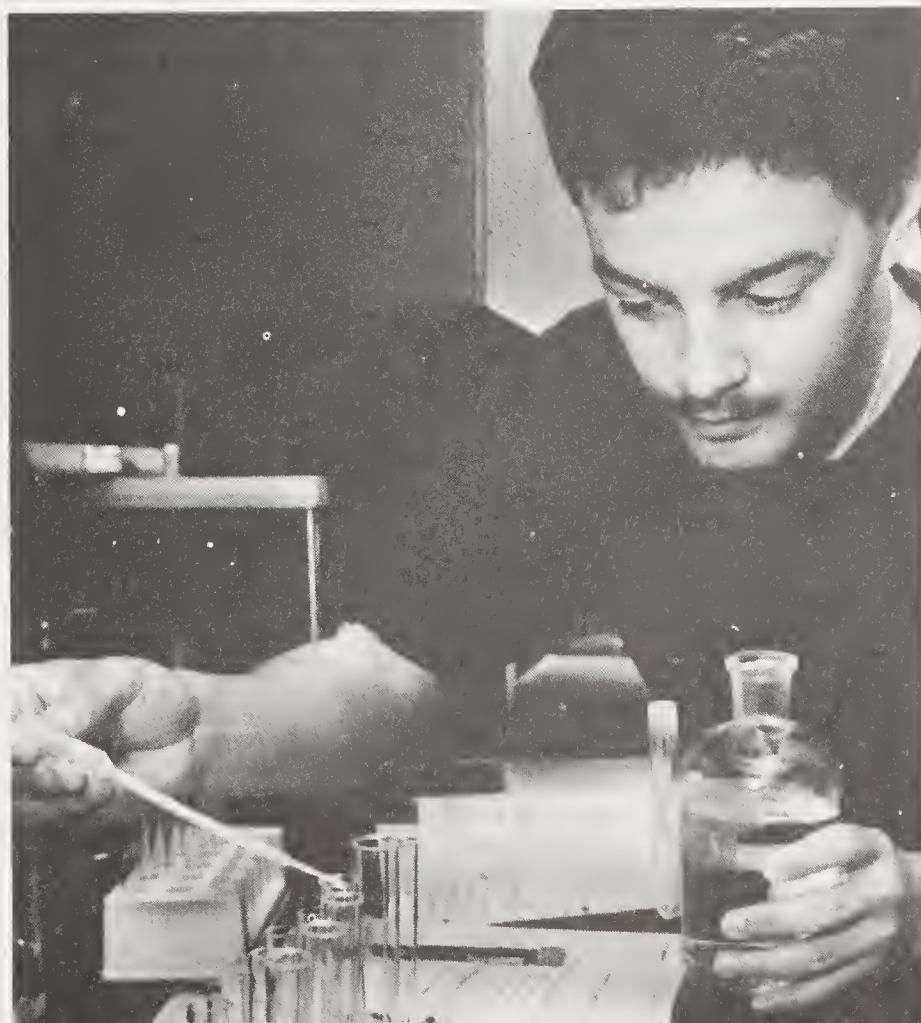
Upon enlistment in the North Carolina National Guard, students will be eligible to apply for up to \$500 per year tuition assistance, with a maximum of \$2,000 over a four-year period. The Tuition Assistance program was established by the North Carolina Legislature to provide educational assistance for members of the North Carolina National Guard. For further information students can write to NORTH CAROLINA ARMY NATIONAL GUARD, Educational Opportunities, Att: AGRR, 4105 Reedy Creek Road, Raleigh, NC 27607.

VETERAN DEPENDENTS

Children of disabled or deceased veterans may receive financial assistance in the payment of tuition, room, meals, and other required University fees. For information and application forms, students should write to the North Carolina Department of Veterans Affairs, Raleigh, North Carolina.

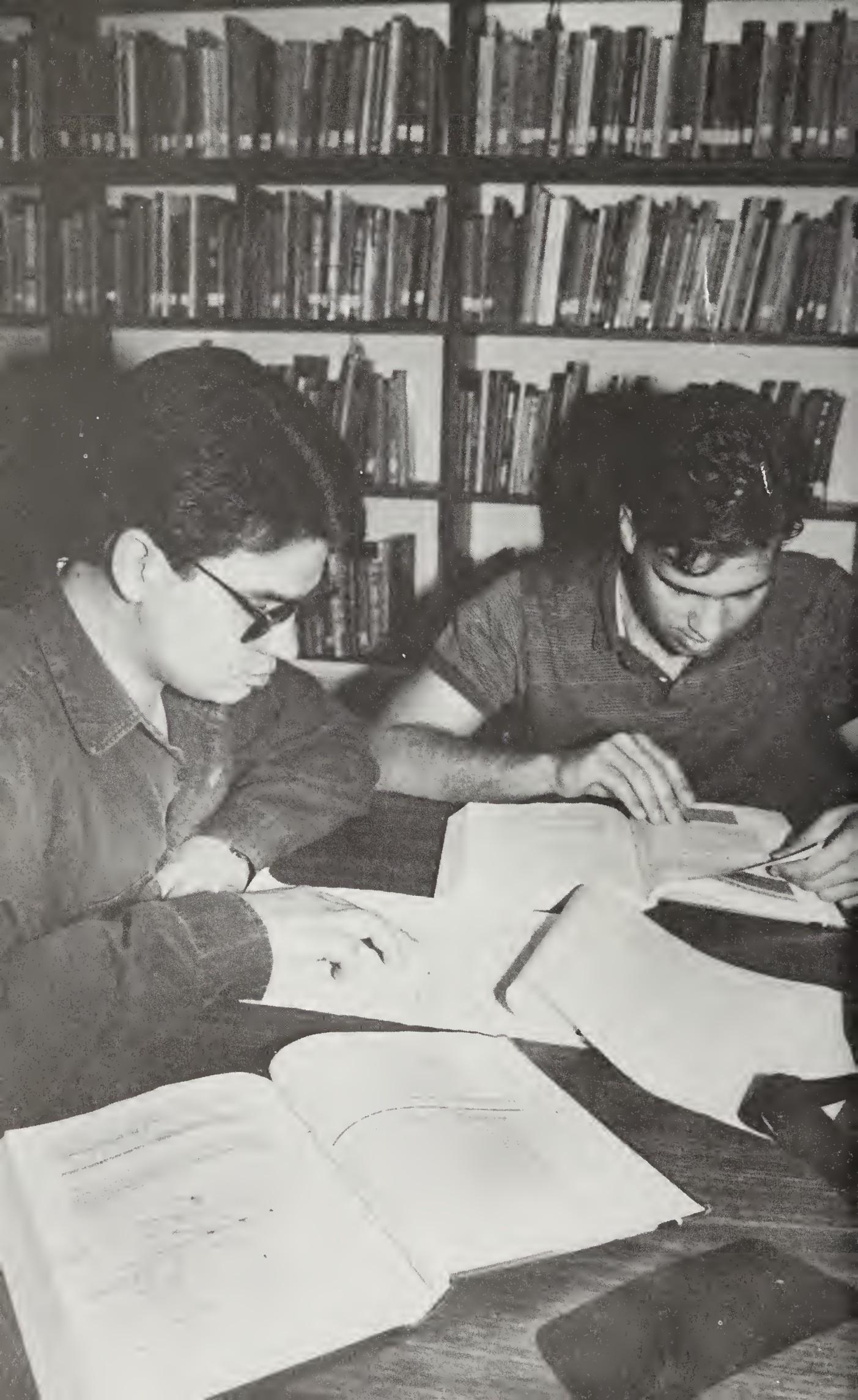
Chapter 35, Title 38, U.S. Code provides for the training of sons, daughters, spouses, and widows of veterans who died in service; who died as a result of a service-connected disability; who became permanently and totally disabled as a result of a service-connected disability; or who have been listed as missing in action, captured, detained, or interned in line of duty by a foreign government or power.

Students enrolling under provisions of Chapters 30, 32, 35 and 106 will pay fees at the time of registration and receive a monthly education and training allowance from the Veterans Administration. Since the first check is usually delayed, a veteran should make arrangements as early as possible.









PEMBROKE
STATE UNIVERSITY

**COURSES OF
INSTRUCTION
for
UNDERGRADUATE
PROGRAMS**

UNIVERSITY ORIENTATION*Coordinator: Norma J. Thompson*

A university education is a unique experience. Although people sometimes mistakenly think of it as only a continuation of secondary education, it requires certain attitudes and skills that go far beyond what students have needed previously. One of its most distinctive features is its direct confrontation with the limitations of human knowledge. Whereas in high school we relied on teachers and textbooks writers to decide difficult issues, at the University we move into a domain where experts routinely disagree and many moral issues have no simple answers. Out of this experience, we learn a new respect for skepticism, open-mindedness, and our own creativity.

The University also introduces us to much greater personal freedom and independence. Often we move away from the security of our families into the exciting world of dormitory life. This change forces us to budget our own time and to sustain our own motivation for achievement.

Finally, the content of a university curriculum is more difficult to comprehend and retain than anything we have faced before. We read technical, specialized material and learn words we have never seen. We are asked to identify key ideas on our own and to review for comprehensive examinations.

All of these considerations suggest that new students should receive special instruction preparing them for the unique challenges of university life. Accordingly, Pembroke State University has developed a course entitled University Orientation. This course is a regular academic endeavor, with lectures, examinations, and academic credit. Its content is summarized in the description presented below. Students are encouraged to participate actively in this course and to prepare carefully for its examinations. Such effort may prove more valuable than any other activity undertaken during one's first months at the University.

COURSE (ORI)**100. University Orientation**

General introduction to the academic substance, study methods, and special adjustment problems of university life. Conducted by faculty from various departments, with a common syllabus. Required of all incoming freshmen during their first fifteen credit hours of course work at the University. Pass/Fail grading. Fall, Spring, Summer. Credit, 1 semester hour.

AMERICAN INDIAN STUDIES
Chairperson: LINDA OXENDINE

JOHN R. BOWMAN
 DAVID K. ELIADES
 ROBERT K. GUSTAFSON

STANLEY KNICK
 ROBERT W. REISING
 RALPH L. STEEDS
 ADOLPH L. DIAL, Resident Consultant

Pembroke State University was established in 1887 as an institution for Native Americans. Since 1953, it has had a multi-racial student body.

Because of its heritage, the University, through this Department, offers a program to educate its students about the rich diversity of the Indian past and Indian cultures, to promote scientific and humanistic research and scholarship concerning Native American cultures, and to prepare students for professional or scholarly careers.

The Department offers a Bachelor of Arts degree and a minor in American Indian Studies. Students are encouraged to select courses that touch on as many different aspects of Native American history and culture as possible.

Requirements for a Bachelor of Arts Degree in American Indian Studies

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	30
AIS 210 (or HIST 210), 213 (or REL 213), 220 (or CMA 220), 301, 360, 458 (or SOC 458) or 395, 427 (or ART 427)	21
Six hours from the following: AIS 302, 324, 325, 401, 402, 450, 455	6
AIS electives	3
Electives	47
Total	128

Requirements for a Minor in American Indian Studies

AIS 210 (or HST 210) and 18 additional semester hours of AIS courses or their crosslisted equivalents.	21
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Academic Concentration in American Indian Studies

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Department of American Indian Studies offers an Academic Concentration of 24 hours. Please see the Department Chairperson for details about this concentration. This Academic Concentration is available to other students, regardless of major.

COURSES (AIS)**INTERDEPARTMENTAL****201. American Indian Culture**

An introductory survey of American Indian cultural traditions through the study of film, art, oral and written literature, music, and religion. Fall, Spring. Credit, 3 semester hours.

239. American Indian Education

A study of the history of Indian education policy and practice in the United States from traditional tribal methods through contemporary federal, state, and tribal programs. Fall, Spring. Credit, 3 semester hours.

301. Contemporary Issues of American Indians

This seminar-style course examines the principal issues of concern to Native Americans in the twentieth century. Both national and local in scope, topics include: politics; economics; treaty relationships with federal and state governments; education; alcohol and substance abuse; the environment; cultural identity and survival; relation with non-Indians; religious freedom; land and water rights; tribal sovereignty; and other contemporary issues as they arise. Fall, Spring. Credit, 3 semester hours.

302. Workshop in American Indian Studies

A workshop designed especially for elementary and secondary school teachers. Special emphasis will be given to aspects of Indian history, textbooks, and their treatment of the American Indian and contemporary Indian problems. Consideration will also be given to Native American writers, to Indian culture and to the changing lifestyle of the people. Topics of special interest will be discussed. General procedure will be determined by the interest and enthusiasm of the groups. Summer. Credit, 3 semester hours.

360. History and Culture of the Lumbee

A study of the history and culture of the Lumbee Indians, the largest tribal group east of the Mississippi. While the focus will be primarily historical, all facets of Lumbee culture will be treated including the economic, political, and religious structure of the people as well as artistic and literary accomplishments. Fall, Spring. Credit, 3 semester hours.

395. Archaeology in North Carolina

This course approaches archaeology as a way to learn about human beings. Special emphasis will be placed on prehistoric Indian cultures of North Carolina, and especially those of Robeson County. Topics will include: application of archaeology to present day issues; recovering and caring for archaeological materials; stages of Indian prehistory; theoretical and practical issues which face the archaeologist; etc. Weather permitting, some field excursions will be included. Credit, 3 semester hours.

404. Field Methods in Archaeology

In this course students will perfect proper use of field methods and techniques in archaeology. Topics will include site reconnaissance, systematic sampling of surface and sub-surface materials, excavation, and record keeping. Summer. Credit, 3 semester hours.

455. American Indian Historical Sites

The Historical Sites Study will stress American Indian culture and will include visits to museums, reservations, and historic sites. Summer. Credit, 1-4 semester hours.

460. American Indian Health

Prerequisite: Junior standing or permission of the instructor.

This course examines nutritional, cultural, demographic, and socio-economic aspects of health in Native American from prehistoric times into the present; these will be evaluated with a view to lessons for modern Indian health practitioners. Topics also include effects of European contact on Indian health, modern health problems in Indian communities, and traditional Indian medical practices. As announced. Credit, 3 semester hours.

499. Independent Study in American Indian Studies

Prerequisite: Consent of Instructor.

Directed reading and research under the guidance of the instructor in a specific area or problem in American Indian Studies. Fall, Spring, Summer. Credit, 3 semester hours.

ANTHROPOLOGY**105. Introduction to Cultural Anthropology (SOC 105)**

A survey of the various processes and conditions involved in cultural growth and change, including the relation between technology, religion, art, literature, language, and personality development. Emphasis is placed on human ecology and contacts between cultures. Fall. Credit, 3 semester hours.

458. American Indians Before Columbus (SOC 458)

An introduction to the study of ecological adaptations by North America's original inhabitants, with emphasis on nine culture regions: Inuit, Canada, Plateau, Great Basin, California, Pacific Northwest, Mississippi, Calusa, and Eastern Woodlands. Theories of Origin, including Goodman's American Genesis hypothesis, will be examined. Scientific methods of artifact dating will be considered. A research project is required. Spring of 1988 and alternate years. Credit, 3 semester hours.

ART**427. North American Indian Art History (ART 427)**

A survey course of the range of artistic expression of the North American Indians, from prehistoric to the 20th century. The course will cover paintings, sculpture, types of habitation, crafts, and ceremonial arts. Alternate Spring. Credit, 3 semester hours.

COMMUNICATIVE ARTS (LITERATURE)**220. American Indian Literature (CMA 220)**

An introduction to Native American Literature. Texts written, collected, or edited by Native Americans will be used whenever possible. Spring, Summer. Credit, 3 semester hours.

450. Seminar in Native American Literature (CMA 450)

A study of selected topics in American Indian literature. Fall. Credit, 3 semester hours.

HISTORY**210. History of the American Indian (HST 210)**

A survey of the major Indian cultures in North America with emphasis on those located in the eastern half of the United States. Fall, Spring. Credit, 3 semester hours.

324. Indians of Latin America (HST 385)

A study of the history, culture, and contemporary achievement of the Indians residing south of the Rio Grande. Fall. Credit, 3 semester hours.

325. Indians of the Southeast

A thorough examination of the history, culture, interaction, and present condition of the major tribes of southeastern America. Fall. Credit, 3 semester hours.

401. Colloquium on American Indian History

Prerequisite: Permission of the instructor.

Investigations into selected topics in American Indian history through the reading of significant books, discussions, and supplementary reports. Fall, Spring, Summer. Credit, 3 semester hours.

402. Federal Policy and the American Indian

Prerequisite: Permission of the instructor.

A study of federal policy as it related from the Colonial period to the present. Fall. Credit, 3 semester hours.

RELIGION**213. American Indian Religious Traditions (REL 213)**

This course is designed as an introduction to the contributions that Native American religious traditions make to the general study of religion. As such it is a survey of the religious traditions and practices of Native Americans. Spring. Credit, 3 semester hours.

ART*Chairman: PAUL VAN ZANDT*

STANLEY R. JENKINS

RALPH L. STEEDS

The Department of Art fulfills an ever-increasing need by contributing to the cultural life and experiences of the whole University, as well as providing many opportunities for the artistic and intellectual development of those who have chosen a fine art as a professional goal. Art develops an understanding and an appreciation of the beauty of everyday life. The Art Department provides the gifted student with a professional foundation as an artist and/or as a teacher.

In conjunction with other parts of the University, the Art Department offers the following programs leading to the Bachelor of Arts degree and the Bachelor of Science degree with teacher education certification for teaching at the K-12 level.

Before graduating from either program, a senior is required to present an acceptable exhibition of his work from his area of concentration.

Requirements for a Bachelor of Arts Degree**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
Thirty semester hours of lower level art studios: 100, 101, 102, 105, 109, 111, 132, 133, 140, 250,	
Six semester hours, advanced History of Art	
Twelve semester hours, Area of Concentration: Sculpture, Ceramics, Printmaking, or Painting	
Nine semester hours, Area of Secondary Interest: Sculpture, Painting, Ceramics, Printmaking	57
Electives	20
Total	128

*Students who plan a major in Art should consult the Department Chairman prior to registering for Basic Studies Courses.

**Entry into the BA Art Studio Program is by portfolio review. A student may also enter the program on a conditional basis. When that student has successfully completed 9 semester hours of introductory studio art courses, he/she may be considered for acceptance into the art program as a Major in Studio Art.

Requirements for a Bachelor of Science Degree with Teacher Education Certification for Teaching at the K-12 Level (see p. 72 for Teacher Education).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
Thirty semester hours of lower level art studios: 100, 101, 105, 107, 109, 111, 132, 133, 140, 250	
Six semester hours, advanced History of Art	
Six semester hours, one area of advanced art studio	
Nine semester hours, Art Education: 108, 306, 308	51
Professional Education Requirements:	
EDN. 202, 227, 308, 419, 437, 445, 448; ART 400	25
Electives	<u>1</u>
	Total 128

*Students who plan a major in Art should consult the Department Chairman prior to registering for Basic Studies Courses.

Requirements for a Minor in Art

The Minor in Art is designed to offer a fundamental background in Art for the non-Art major. Eighteen semester hours are required.

Required core of 12 hours
ART 101—Elements of Design—3 hours
ART 111—Introduction to Ceramics—3 hours
ART 132—Introduction to Drawing—3 hours
ART 306—Crafts for Secondary Education—3 hours

Plus 6 hours Art Electives (May be taken after necessary prerequisite where applicable.)

Academic Concentration in Art

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Art Department offers an Academic Concentration of 27 hours. This Academic Concentration is available to other students, regardless of major.

Required Courses

Course Number	Course Title	Semester Hours
ART 101	Elements of Design	3
ART 102	Three-Dimensional Design	3
ART 132	Introduction to Drawing	3
ART 205	History and Appreciation of Art	3

Choose five other courses from the following:

ART 105	Introduction to Sculpture	3
ART 107	Photography	3
ART 109	Figure Drawing	3
ART 111	Introduction to Ceramics	3
ART 133	Introduction to Paintings	3
ART 140	Introduction to Printmaking	3
ART 210	Introduction to Jewelry	3
ART 306	Crafts for Secondary Education	<u>3</u>
		Total 27

COURSES (ART)

100. Art Concepts

A study of the theories and philosophies of the visual arts. An introductory analysis of visual art concepts with emphasis on contemporary theories and their relationships to the history of art. A directed readings and seminar course aimed at developing an awareness of visual art and individual concepts of creative endeavor. Fall. Credit, 3 semester hours.

101. Elements of Design

A study and application of design principles in creative two-dimensional projects in line, value, color and texture. Fall. Credit, 3 semester hours.

102. Three-Dimensional Design

Prerequisite: ART 101.

A study and application of design principles in creative three-dimensional projects in mass and space using various materials. Spring. Credit, 3 semester hours.

105. Introduction to Sculpture

A survey course aimed at studying the problems of mass and space in sculpture. Various materials and sculptural techniques will be explored. Fall. Credit, 3 semester hours.

107. Photography

An introduction to the basic technical and aesthetic principles of still and motion photography. Fall.

108. Art Education in the Public Schools

A study of arts and crafts as an integral part of teaching the elementary grades. Acquaintance with various tools and media for two and three-dimensional art work. A special emphasis placed on the philosophy of motivating and teaching art to children, using existing foundations of art and education. Fall, Spring. Credit, 3 semester hours.

109. Figure Drawing

A course to introduce the student to the figure as an art form. Various techniques will be explored. Fall. Credit, 3 semester hours.

111. Introduction to Ceramics

Introduction to basic forming and decorating methods of ceramics. The student will study mixture glazes from recipes. Basic firing procedures and ceramic aesthetics will be introduced. Fall, Spring. Credit, 3 semester hours.

132. Introduction to Drawing

A course designed to acquaint the student with the basic principles of media and terminology of drawing. Fall, Spring. Credit, 3 semester hours.

133. Introduction to Painting

An introduction to color, structure, and pictorial organization. Various techniques and group criticism will be implemented. Fall, Spring. Credit, 3 semester hours.

140. Introduction to Printmaking

Prerequisite: ART 132.

A course offering the basic techniques and procedures in printmaking. Studio projects include problems in intaglio, wood cuts, wood engravings, and the collograph. Fall, Spring. Credit, 3 semester hours.

205. History and Appreciation of Art

To establish an understanding of art, to develop an appreciation for the relation between art and man, and to study art in a cultural environment. Fall, Spring. Credit, 3 semester hours.

210. Introduction to Jewelry

Prerequisite: ART 132.

A course designed to equip the student with the basic knowledge of jewelry formation using silver construction techniques. Fall, Spring. Credit, 3 semester hours.

220. Intermediate Jewelry

Prerequisite: ART 210.

A course designed to equip the student with the basic knowledge of complex jewelry formation and decorating using construction and casting techniques. Fall, Spring. Credit, 3 semester hours.

250. Communication Design

Prerequisite: ART 151.

An introduction to applied lettering, layout, illustration, typography, and general graphic design. Spring. Credit, 3 semester hours.

306. Crafts for Secondary Education

A course of craft projects which cover: (a) the use of basic materials such as wood, metal, cloth, etc; (b) the aesthetic principles of design as applied to these projects; (c) how such craft projects may be effectively presented at the secondary level. Spring. Credit, 3 semester hours.

308. Art Education Field Experience

Prerequisite: ART 108, 306.

A two-part course consisting of (1) All aspects of preparatory work for art instruction to a specific group and (2) The actual teaching of the controlled group with periodic self and advisor evaluations. Fall, Spring. Credit, 3 semester hours.

315. Advanced Sculpture I

Prerequisite: ART 105.

A study and application of three-dimensional principles and techniques used to formulate a creative expression. Spring. Credit, 3 semester hours.

316. Advanced Sculpture II

Prerequisite: ART 315.

Advanced study in sculpture devoted to developing skills, techniques, and exploration of new materials. Spring. Credit, 3 semester hours.

320. Advanced Drawing

Prerequisite: ART 132.

Continued development of drawing skills with emphasis on sustained media exploration. Special attention will be given to the development of conceptual approaches and contemporary trends in drawing.

331. Advanced Painting I

Prerequisite: ART 132, 133.

A course designed to broaden perceptive awareness in the areas of composition, space, and color theory. Fall, Spring. Credit, 3 semester hours.

332. Advanced Painting II

Prerequisite: ART 331.

Continued development of painting skills with the emphasis on sustained media exploration. Fall, Spring. Credit, 3 semester hours.

341. Advanced Ceramics I

Prerequisite: ART 111.

A studio course in which wheel-thrown pottery is emphasized. Fall, Spring. Credit, 3 semester hours.

342. Advanced Ceramics II

Prerequisite: ART 341.

An advanced study of problems in the production of sets and formulation of original glazes. Fall, Spring. Credit, 3 semester hours.

350. Advanced Printmaking I

Prerequisite: ART 140.

Advanced study in the intaglio and relief printmaking processes and the introduction of screen printing techniques. Fall, Spring. Credit, 3 semester hours.

351. Advanced Printmaking II

Prerequisite: ART 350.

Advanced study in intaglio, relief, or screen printing printmaking processes and the introduction of the lithographic printing processes and techniques. Fall, Spring. Credit, 3 semester hours.

360. Problems Seminar I*

Prerequisite: Approval of Department Chairman.

Credit is obtained by successful fulfillment of a contractual agreement between the student, supervision faculty and Department Chairman. As announced. Credit, 1-3 semester hours.

361. Problems Seminar II*

Prerequisite: Approval of Department Chairman.

A course designed to afford the talented student the opportunity to explore in-depth an area of study not traditionally emphasized in the art curriculum. Credit is obtained by successful fulfillment of a contractual agreement between the student, supervising faculty, and Department Chairman. As announced. Credit, 1-3 semester hours.

400. Public School Art Curriculum

Study of the origins and development of the public school art curriculum in relationship to the development of arts and crafts as a non-subject field in general education. Exploration into the methods and techniques of teaching art in the public schools, as well as the purchase, selection, and maintenance of all art materials, books, and equipment. Fall. Credit, 3 semester hours.

407, 408. Art Supervision

Restricted to the advanced major who is supervising only in his area of concentration or secondary interest and has junior or senior standing.

Designed for advanced art majors to obtain experience in directing beginning students in studio techniques. As announced. Credit, 1-3 semester hours.

409. Advanced Printmaking III

Prerequisite: ART 351.

Advanced study in the lithographic printing processes and further study in intaglio, relief, and screen printing processes and techniques. Fall, Spring. Credit, 3 semester hours.

*Problems seminars may be used for further study after successfully completing the four advanced courses of concentrated study.

410. Advanced Printmaking IV*

Prerequisite: ART 409.

Advanced study in any of the four basic printmaking processes with special focus on experimental and multi-media printmaking processes and techniques. Fall, Spring. Credit, 3 semester hours.

415. Advanced Sculpture III

Prerequisite: ART 316.

Advanced study devoted to developing advanced aesthetics and independent motivation in sculpture. Spring. Credit, 3 semester hours.

416. Advanced Sculpture IV *

Prerequisite: ART 415.

A course in sculpture devoted to developing the student's creative expression in sculpture according to his or her own talents and experiences. Spring. Credit, 3 semester hours.

421. Ancient and Medieval Art History

A survey of architecture, sculpture, painting and other arts from prehistoric times to the Italian Renaissance. Alternate Fall or Spring. Credit, 3 semester hours.

422. Renaissance Art

A survey of the art of Northern Europe and Italy during the fifteenth and sixteenth centuries. Alternate Fall or Spring. Credit 3 semester hours.

423. Modern Art History

A study of the artists and art schools that evolved in Europe during the 19th century. Alternate Fall or Spring. Credit, 3 semester hours.

424. Contemporary Art History

A study of the artists, theories, and art schools that evolved in Europe in the 20th century. Alternate Fall or Spring. Credit, 3 semester hours.

425. European Art History, 1600-1800

A survey of European painting, architecture, and sculpture including the Baroque, Rococo, Neo-classic, and Romantic periods. Fall, Spring. Credit, 3 semester hours.

426. Art History of the United States

A study of painting, architecture, and sculpture of the United States from Colonial times to the present, with an emphasis on 20th century art. Alternate Spring or Fall. Credit, 3 semester hours.

427. North American Indian Art History (AIS 427)

A survey course of the range of artistic expression of the North American Indians, from prehistoric to the 20th century. The course will cover paintings, sculpture, types of habitation, crafts, and ceremonial arts. Alternate Spring. Credit, 3 semester hours.

435. Advanced Painting III

Prerequisite: ART 332.

An exploration of the various manners and approaches to creative painting and their relationship to the individual's experience. Fall, Spring. Credit, 3 semester hours.

*Problems seminars may be used for further study after successfully completing the four advanced courses of concentrated study.

436. Advanced Painting IV*

Prerequisite: ART 435.

A course for the student's personal development of individual expression in painting. Fall, Spring. Credit, 3 semester hours.

441. Advanced Ceramics III

Prerequisite: ART 342.

An advanced studio in which both wheel-thrown and hand-constructed ceramic forms are emphasized. Fall, Spring. Credit, 3 semester hours.

442. Advanced Ceramics IV*

Prerequisite: ART 441.

The assignment of creative ceramic problems in line with individual student interests and needs. Fall, Spring. Credit, 3 semester hours.

460. Problems Seminar III*

Prerequisite: Approval of Department Chairman.

Credit is obtained by successful fulfillment of a contractual agreement between the student, supervising faculty, and Department Chairman. As announced. Credit, 1-3 semester hours.

461. Problems Seminar IV*

Prerequisite: Approval of Department Chairman.

A course designed to afford the talented student the opportunity to explore in-depth an area of study not traditionally emphasized in the art curriculum. Credit is obtained by a successful fulfillment of a contractual agreement between the student, supervising faculty, and Department Chairman. As announced. Credit, 1-3 semester hours.

499. Independent Study in Art

Prerequisites: Introductory course in chosen area and approval of Department Chairman. Directed reading, research, and problem solving in the student's major or secondary area of interest. This course is designed to fulfill individual and specific needs of art majors in their particular area of advanced study. Fall, Spring. Credit, 3 semester hours.

*Problems seminars may be used for further study after successfully completing the four advanced courses of concentrated study.

BIOLOGY

Chairman: HAROLD D. MAXWELL

ANDREW N. ASH

DAVID K. KUO

SUE BOWDEN +

JOSEPH A. McGIRT

ROBERT F. BRITT

DAVID D. ZEIGLER

BONNIE A. KELLEY*

*Biology Education Coordinator

+ Science Education Coordinator

The objectives of the Biology Department are to afford students an opportunity to gain an understanding of themselves and their environment and thus prepare themselves for taking a fuller, more satisfying role in society; to train students in their ability to reason inductively and deductively; to encourage original thought; to prepare teachers in the biological sciences for the elementary and secondary school; and to provide a background in subject matter and laboratory skills for curricula in which the fundamentals of the various sciences are used.

The department offers the following programs leading to the Bachelor of science degree in biology with indicated concentration or certification. Students should consult the department head for details of each program.

1. Biology
2. Biology with Teacher Certification
3. Biology—Medical Technology Program
4. Biology—Pre-podiatric Medicine Program
5. Biology—Biomedical Emphasis
6. Biology—M.A.R.C. Program

In addition the department offers a curriculum leading to the B.S. degree in Science Education with Concentration in Biology. For Requirements for the B.S. Degree Program in Science Education with a Major in Biology, see **Special Programs** section of this catalog.

Core of Required Courses (required for all degree programs in biology)

	Sem. Hrs.
Orientation	1
Basic Studies Requirements	50 (38)*
Required Biology Courses	
BIO 100, 100L, 101, 102, 304, 371, 472	24
Biology Electives	9
Chemistry 100, 100L, 101, 101L	8
Mathematics 107, 210 (MAT 215 is required for many programs, MAT 221 and 222 will also satisfy the Mathematics Requirement.)	7 87

*12 semester hours of Natural Sciences and Mathematics will count toward Basic Studies and toward major requirements

Additional requirements apply to specific programs.

BIOLOGY**Requirements for a Bachelor of Science Degree in Biology**

		Sem. Hrs.
Core of Required Courses (above)		87
MAT 215		4
Electives		<u>37</u>
	Total	128

First Year

Fall		Spring	
ORI 100	Univer. Orientation	1	CMA 106
CMA 105	Composition I	3	MAT 215
MAT 107	College Algebra	3	Composition II
CHM 100&L	General Chemistry	4	Calculus with Applications
BIO 100&L	Prin. of Biology	4	CHM 101&L General Chemistry
PED		<u>1</u>	BIO 102 General Zoology
		16	PED
			<u>1</u>
		16	16

Second Year

Fall		Spring	
BIO 101	General Botany	4	BIO Elective
Basic Studies (Humanities)		3	Basic Studies (Humanities)
Basic Studies (Social Sciences)		3	Basic Studies (Social Sciences)
Basic Studies (Humanities)		3	Basic Studies (Humanities)
MAT 210	Intro. to Statistics	<u>4</u>	Elective
		17	<u>3-4</u>
			15-17

Third Year

Fall		Spring	
BIO	Elective	3-4	BIO Elective
BIO 304 or 371		4	BIO 304 or 371
Basic Studies (Social Sciences)		3	Basic Studies (Humanities)
Basic Studies (Humanities)		3	Basic Studies (Social Sciences)
Elective		<u>3-4</u>	Elective
		16-18	<u>3-4</u>
			16-18

Fourth Year

Fall		Spring	
BIO 472 or BIO Elective		3-4	BIO 472 or BIO Elective
Electives		<u>13</u>	Electives
		16-17	<u>13</u>
			16-17

BIOLOGY-TEACHER CERTIFICATION

Requirements for a Bachelor of Science Degree with Teacher Certification (see p. 72 for Teacher Education Requirements)

	Sem. Hrs.
Core of Required Courses (above)	87
Chemistry 300	4
Physics 150, 151	
or	
Physical Science 156, Geology 100	6
Professional Education Requirements	
EDN 202, 227, 308, 419, 437, 445, 448	22
SCE 300, 400	4
Electives	5
Total	128

Sequence of Courses for a Bachelor of Science Degree with Teacher Certification**First Year**

	Fall		Spring	
CMA 105	Composition I	3	CMA 106	Composition II
BIO 100 &			CHM 101 &	
100L	Prin. of Biology	4	101L	General Chemistry
CHM 100 &				
100L	General Chemistry	4	Basic Studies (History)	3
Basic Studies (History)		3	Basic Studies (Social Science)	3
ORI 100	University Orientation	1	MAT 107	College Algebra
PED		1	PED	
		16		17

Second Year

	Fall		Spring	
BIO 101	General Botany	4	BIO 102	General Zoology
CMA	Literature Course	3	CMA	Literature Course
MAT 210	Intro. to Statistics	4	EDN 202	Educational Psychology
EDN 227	Found of Education I	3	Basic Studies (Social Science)	3
Basic Studies (Social Science)		3	Basic Studies (Humanities)	3
			SCE 300	Early Exp. for Sci. Teachers
		17		17

Third Year

	Fall			Spring	
PHY 150 or	Elementary Physics	3	PHY 151 or	Elementary Physics	3
PHS 156	Astronomy		GLY 100	Introd. Geology	
BIO 304	Prin. of Ecology	4	BIO 371	Cell Biology	4
EDN 308	Psychology of Adoles.	3	BIO Elective		3-4
CHM 300	Organic Chemistry	4	BIO Elective		3-4
Basic Studies (Humanities)		<u>3</u>	Basic Studies (Social Science)		<u>3</u>
		17			16-18

Fourth Year

	Fall		Spring	
EDN 437	Mainst. Except Stud. Sec. 1		SCE 400	Method Teaching Science 3
EDN 419	Reading in Content Area	3		in Second. Sch.
BIO 472	Prin. of Genetics	4	EDN 445	Found. of Education II 3
BIO Elective		3-4	EDN 448	Student Teaching, 6
Electives		<u>3</u>		Secondary
		14-15		
				12

BIOLOGY—MEDICAL TECHNOLOGY

Requirements for a Bachelor of Science Degree in Biology with Emphasis in Medical Technology (see p. 84 for a description of this program.)

		Sem. Hrs.
Core of Required Courses (above) (Except BIO 304 and BIO Electives)		74
BIO 212, 315 (in lieu of BIO Electives)		8
CHM 300, 301		8
PHY 150, 151 (with Lab)		8
CSC 100		3
BUS 307		3
Clinical Work in Approved Hospital		<u>30</u>
Total		134

Sequence of Courses for a Bachelor of Science Degree in Biology with Emphasis in Medical Technology

First Year

	Fall		Spring	
CMA 105	Composition I	3	CMA 106	Composition II
BIO 100 & 100L	Principles of Biology	4	BIO 101	General Botany
MAT 107	College Algebra	3	CHM 101L	General Chemistry
CHM 100&L	General Chemistry	4	Basic Studies (Humanities)	3
Basic Studies (Humanities)		3	Basic Studies (Social Science)	3
ORI 100	Univ. Orientation	<u>1</u>		
		18		
				17

Second Year

	Fall		Spring	
BIO 102	General Zoology	4	BIO 315	Microbiology
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry
MAT 210	Intro. to Statistics	4	CSC 100	Intro. to Comp. Sci.
Basic Studies (Humanities)		3	Basic Studies (Humanities)	
PED		1	Basic Studies (Social Science)	
		<hr/>	PED	
		16		
				18

Third Year

	Fall		Spring	
PHY 150	College Physics	4	PHY 151	College Physics
BIO 371	Cell Biology	4	BIO 212	Human Physiology
BIO 472	Prin. of Genetics	4	BUS 307	Prin. of Management
Basic Studies (Humanities)		3	Basic Studies (Humanities)	
Basic Studies (Social Science)		<hr/> 3	Basic Studies (Social Science)	
		18		
				17

Fourth Year

Clinical Training in Approved Hospital Program - 30

BIOLOGY—PRE-PODIATRIC MEDICINE

Requirements for a Bachelor of Science Degree in Biology-Pre-Podiatric Medicine Program (see p. 85 for a description of this program.)

	Sem. Hrs.
Core of Required Courses (above) (Except BIO 304)	83
BIO 211, 212, 461	12
CHM 300, 301, 311	12
PHY 150, 151 (with Lab)	8
MAT 215	4
Classroom and Clinical work at Pennsylvania College of Podiatric Medicine	30
	<hr/>
Total	149

Sequence of Courses for a Bachelor of Science Degree in Biology Pre-Podiatric Medicine Program

First Year

	Fall			Spring	
CMA 105	Composition I	3	CMA 106	Composition II	3
BIO 100 &					
100L	Prin. of Biology	4	BIO 102	General Zoology	4
MAT 107	College Algebra	3	CHM 101&L	General Chemistry	4
CHM 100&L	General Chemistry	4	MAT 215	Calculus (with appl.)	4
Basic Studies (Humanities)		3	Basic Studies (Humanities)		3
ORI 100	Univ. Orientation	<u>1</u>	PED		<u>1</u>
		18			18

Second Year

	Fall			Spring	
MAT 210	Intro to Statistics	4	BIO 212	Human Anat. & Physio.	4
BIO 211	Human Anat. & Physio.	4	BIO 101	General Botany	4
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry	4
Basic Studies (Humanities)		3	Basic Studies (Humanities)		3
Basic Studies (Social Science)		<u>3</u>	Basic Studies (Social Science)		<u>3</u>
		18			18

Third Year

	Fall			Spring	
BIO 371	Cell Biology	4	BIO 412	Genetics	4
CHM 311	Biochemistry	4	BIO 461	Animal Physiology	4
PHY 150	College Physics	4	PHY 151	College Physics	4
Basic Studies (Humanities)		3	Basic Studies (Humanities)		3
Basic Studies (Social Science)		<u>3</u>	Basic Studies (Social Science)		<u>3</u>
		18	PED		<u>1</u>
					19

Fourth Year

Classroom and Clinical Work at the Pennsylvania College of Podiatric Medicine

BIOLOGY—BIOMEDICAL EMPHASIS

Requirements for a Bachelor of Science Degree in Biology with Biomedical Emphasis (See p. 84 for a description of this program)

	Sem. Hrs.
Core of Required Courses (above)	87
BIO 211, 212, 315, 461	16
CHM 200, 201, 300, 301, 311	20
PHY 150, 151 (with Lab)	8
MAT 215	<u>4</u>
	131

Sequence of Courses for a Bachelor of Science Degree in Biology with Biomedical Emphasis

First Year

	Fall			Spring	
CMA 105	Composition I	3	CMA 106	Composition II	3
BIO 100 &					
100L	Principles of Biology	4	BIO 102	General Zoology	4
MAT 107	College Algebra	3	MAT 215	Calculus (with appl.)	4
CHM 100&L	General Chemistry	4	CHM 101&L	General Chemistry	4
ORI 100	Univ. Orientation	<u>1</u>		Basic Studies (Humanities)	<u>3</u>
		15			18

Second Year

	Fall			Spring	
BIO 101	General Botany	4	BIO 212	Human Anat. & Physio.	4
BIO 211	Human Anat. & Physio.	4	CHM 201	Quantative Analysis	4
CHM 200	Qualitative Analysis	4		Basic Studies (Humanities)	6
Basic Studies (Humanities)		3		Basic Studies (Social Science)	3
MAT 210	Intro to Statistics	<u>4</u>			<u>17</u>
		19			

Third Year

	Fall			Spring	
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry	4
PHY 150	College Physics	4	PHY 151	College Physics	4
BIO 304	Prin. of Ecology	4	BIO 315	Microbiology	4
Basic Studies (Social Sciences)		3		Basic Studies (Social Sciences)	3
PED		<u>1</u>		PED	<u>1</u>
		16			16

Fourth Year

	Fall			Spring	
CHM 311	Biochemistry	4	BIO 461	Animal Physiology	4
BIO 371	Cell Biology	4	BIO 472	Genetics	4
Basic Studies (Humanities)		3		Basic Studies (Humanities)	3
Basic Studies (Social Studies)		3		BIO Electives	6-6
BIO Elective		<u>3-4</u>			<u>17-18</u>
		17-18			17-18

BIOLOGY—M.A.R.C.

M.A.R.C. Training Program in Biology (See p. 85 for a description of this program)

	Sem. Hrs.
Core of Required Courses (Except MAT 210) & BIO (electives)	74
BIO 211, 212, 221, 370, 461, 495 (4 hours)	27
499 (6 hours)	
CHM 300, 301, 200, 201	16
PHY 150, 151 (with Lab)	8
MAT 215, 221, 222	<u>12</u>
Total	137

Sequence of Courses M.A.R.C.: Training Program in Biology**First Year**

Fall		Spring	
CHM 100&L General Chemistry	4	CHM 101&L General Chemistry	4
BIO 100 &			
100L Prin. of Biology	4	BIO 102 General Zoology	4
MAT 107 College Algebra	3	BIO 101 General Botany	4
ORI University Orientation	1	CMA 106 Composition II	3
CMA 105 Composition I	3	Basic Studies (Humanities)	3
Basic Studies (Social Sciences)	<u>3</u>		
	18		18

Second Year

Fall		Spring	
CHM 300 Organic Chemistry	4	CHM 301 Organic Chemistry	4
BIO 211 Human Anat. & Physio.	4	BIO 212 Human Anat. & Physio.	4
Basic Studies (Social Science)	3	Basic Studies (Social Science)	3
Basic Studies (Humanities)	3	Basic Studies (Humanities)	3
MAT 215 Calculus with applications	<u>4</u>	Basic Studies (Humanities)	<u>3</u>
	18		17

Summer

Curriculum Enhancement Program at Pembroke State University

Third Year

Fall		Spring	
BIO 371 Cell Biology	4	BIO 461 Animal Physiology*	4
MAT 221 Calculus I	4	or	
CHM 200 Qualitative Analysis	4	BIO 472 Genetics	
BIO 495 Biomedical Seminar	1	MAT 222 Calculus II	4
BIO 370 Science Communication	1	CHM 201 Quantative Analysis	4
Basic Studies (Humanities)	3	Basic Studies (Humanities)	3
PED	1	BIO 495 Biomedical Seminar	1
	<u>18</u>	PED	<u>1</u>
			17

Summer

Summer Research Experience at Off-Campus Institution

Fourth Year

	Fall			Spring	
BIO 304	Principles of Ecology	4	BIO 461	Animal Physiology*	4
BIO 221	Comparative Anatomy	4	or		
BIO 499	Research in Biology	3	BIO 472	Genetics	
BIO 495	Biomedical Seminar	1	PHY 151	College Physics	4
PHY 150	College Physics	4	BIO 499	Research in Biology	3
		16	BIO 495	Biomedical Seminar	1
				Basic Studies (Social Science)	3
					15

*Animal Physiology is taught in alternate years.

Academic Concentration in Biology

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Biology Department offers an Academic Concentration of 25 hours.

Required Courses

Course Number	Course Title	Semester Hours
BIO 100	Principles of Biology	3
BIO 100 L	Principles of Biology Lab	1
BIO 101	General Botany	4
BIO 102	General Zoology	4
BIO 103	Basic Human Biology	3
BIO 210	Conservation and Environment	2
BIO 371	Cell Biology	4
CHM 100, 100L	General Chemistry	4
		Total 25

COURSES (BIO)

Biology 100, Principles of Biology, is a prerequisite to all other Biology courses except Biology 207, History of Biology, and Biology 210, Conservation and Environment. These two courses have no prerequisites. Biology 101, General Botany, is a prerequisite for all other botany courses. Biology 102, General Zoology, is a prerequisite for all other zoology courses.

100. Principles of Biology

An introduction to modern and classical biology concepts. Fall, Spring. Three lectures weekly. Credit, 3 semester hours.

100L. Laboratory Investigations and Experiences in General Biology

Prerequisite: Enrollment in or credit for Biology 100.

Introductory laboratory experiments in which basic principles of biology will be investigated. Fall, Spring. Credit, 1 semester hour.

101. General Botany

Introductory plant science with emphasis on morphology and physiology of the seed plants and a survey of representative types from the plant kingdom. A prerequisite to all other courses in botany. Fall, Spring. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

102. General Zoology

A study of the major animal systems, processes and phyla. A prerequisite to all other courses in zoology. Fall, Spring. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

103. Basic Human Biology

Prerequisite: BIO 100 or permission of instructor.

An elementary study of the human body in health and disease. This course will relate fundamental knowledge about human anatomy and physiology to current issues. Questions such as "how do birth control pills work?" and "what causes cancer?" will be explored. Not open to biology majors. Fall. Three lectures weekly. Credit, 3 semester hours.

201. Economic Botany

A study of the origin, distribution, propagation and use of the economically important plants. Fall of 1991-92 and alternate years. Three lectures weekly. Credit, 3 semester hours.

203. Vertebrate Zoology

The biology of the major groups of vertebrate animals with emphasis on general structural and physiological plans and diversity. A valuable course for any curriculum but strongly recommended for those students who plan to take only one higher level zoology course. Spring of 1990-91 and alternate years. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

207. History of Biology

An introduction to the major ideas of biology and their development. Fall of 1990-91 and alternate years. Three lectures weekly. Credit, 3 semester hours.

210. Conservation and Environment

A study of our natural resources emphasizing: (1) the role natural resources have played in promoting our economic well being, (2) the techniques and policies by which these resources can be intelligently managed and utilized, and (3) the urgency for halting resource abuse and the deterioration of environmental quality. Fall, Spring. Two lectures weekly. Credit, 2 semester hours.

211, 212. Human Anatomy and Physiology

A course covering the structure and function of the human body. Appropriate physiological exercises and dissections of a mammal are performed concurrently in the laboratory. Fall, Spring. Three lectures and a two-hour laboratory weekly. Credit, 4 semester hours.

221. Comparative Anatomy

Comparative studies of the various organs and systems of vertebrates and laboratory emphasis on the lamprey, dogfish shark, salamander, and the cat. Fall of 1991-92 and alternate years. Two lectures and two, two-hour laboratories weekly. Credit, 4 semester hours.

222. Embryology

Early developmental biology leading to organogenesis. Laboratory emphasis on the chick. Spring of 1990-91 and alternate years. Two lectures and two, two-hour laboratory periods weekly. Credit, 4 semester hours.

231. Morphology of the Non-Vascular Plants

A comprehensive survey of the algae, fungi, and bryophytes dealing with structure, form, and reproduction. Fall of 1990-91 and alternate years. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

232. Morphology of the Vascular Plants

A continuation of Biology 231, a survey of the plant kingdom with emphasis on selected types of vascular plants. Spring of 1990-91 and alternate years. Three lectures and two-hour laboratory weekly. Credit, 4 semester hours.

300. Medical Vocabulary

A course designed to familiarize students with common medical terms through the use of Latin and Greek word parts. Intended primarily for Pre-Medical, Pre-Veterinary and other Pre-Health curricula. Fall of 1990-91 and alternate years. Credit, 2 semester hours.

301. Entomology

An introduction to the study of insects which emphasizes the classification, morphology, physiology, ecology, behavior, and importance of insects. Approximately one week will be devoted to spiders. A collection with identification is required. Three lectures and a two-hour laboratory weekly. Fall of 1990-91 and alternate years. Credit, 4 semester hours.

304. Principles of Ecology

An analysis of the interactions of organisms with each other and the physical environment. Ecological process is examined at individual, community, and ecosystem levels. The basic kinds of ecosystems are surveyed. Three lectures and a three-hour laboratory weekly. Fall, Spring. Credit, 4 semester hours.

305. Introductory Mycology

An introduction to the fungi, with emphasis upon taxonomy and physiology, including some reference to their economic importance. Fall of 1991-92 and alternate years. Two lectures and a two-hour laboratory period weekly. Credit, 3 semester hours.

310. Invertebrate Zoology

A survey of the major invertebrate phyla emphasizing classification, morphology, natural history, evolution, and behavior. At least one Saturday coastal field trip is required. Fall of 1991-92 and alternate years. Credit, 4 semester hours.

314. Special Topics in Biology

A course designed to meet the unusual needs of individuals in special programs such as the Science Institute for school teachers and those working toward certification. The specific contents and credit for the course will be determined by the needs of the students and is subject to departmental approval. As announced. Credit, 1-3 semester hours.

315. Microbiology

The biology of bacteria, fungi, algae, protozoa, and viruses, with special reference to bacteria. Microbial diseases, immunity and the role of microorganisms in human affairs are also emphasized. Three lectures and a two-hour laboratory weekly. Spring. Credit, 4 semester hours.

319. Animal Parasitology

An introduction to the biology of parasites emphasizing classification, morphology, life history, pathology, treatment, ecology and evolution. Three lectures and a two-hour laboratory weekly. Spring of 1991-92 and alternate years. Credit, 4 semester hours.

330. Plant Pathology

A study of the symptoms, causal agents, and control methods of plant diseases, with emphasis on those economically important to this area. Spring of 1990-91 and alternate years. Two lectures and a two-hour laboratory weekly. Credit, 3 semester hours.

340. Plant Taxonomy

An introduction to systematic botany with emphasis on identification of the local vascular flora. Spring 1991-92 and alternate years. Two lectures and two, two-hour laboratory periods weekly. Field trips as announced. Credit, 4 semester hours.

350. Ornithology

Classification and identification of birds life histories; feeding habits; nesting habits; theories of migration; economic importance. Spring of 1990-91 and alternate years. Two lectures and a two-hour laboratory period weekly. Credit, 3 semester hours.

354. Plant Physiology

A general study of the physiological activities in plants such as the fundamental principles, water relations, metabolism, plant growth hormones, as well as growth and development. Fall of 1990-91 and alternate years. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

370. Science Communication and Research Methods

Prerequisite: Consent of Instructor

A review of the current literature in a variety of biomedical journals. The format for presentation of material and the research methods employed will be examined. Designed so that students can obtain an understanding of how research is done and how it is reported. Credit, 1 semester hour.

371. Cell Biology

Prerequisites: CHM 100, 101; 300, 301 recommended.

A study of cellular ultrastructure and physiology. Fall, Spring. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

372. Vertebrate Histology and Microtechnique

A course in the techniques of preparing tissues for microscopic examination. Slide preparation and tissue identification will be emphasized. Spring of 1991-92 and alternate years. Two lectures and two, two-hour laboratory periods weekly. Credit, 4 semester hours.

380. Comparative Animal Nutrition

Elective

Prerequisites: CHM 210, 211 or 300, 301.

A study of the principles of nutrition including the classification of nutrients, the nutritional requirements of different species and the physiological role of various nutrients. Fall of 1991-92 and alternate years. Credit, 3 semester hours.

422. Evolution

Prerequisite: Consent of the Instructor.

An introduction to and analysis of the concepts of organic evolution, mutation, adaptation, selection, competition, and origin of species are considered. Fall of 1991-92 and alternate years. Three lectures weekly. Credit, 3 semester hours.

461. Animal Physiology

Prerequisites: CHM 300, 301; and BIO 371 recommended.

A study of physiological principles as they occur throughout the animal kingdom with special emphasis on mammals. A comprehensive study of the mechanisms involved in the maintenance of the homeostatic condition. Spring of 1991-92 and alternate years. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

472. Principles of Genetics

Prerequisites: CHM 100, MAT 107.

An introduction to the basic principles of heredity and molecular genetics. General aspects of human genetics are included. Fall, Spring. Three lectures and a two-hour laboratory period weekly. Credit, 4 semester hours.

495. Biomedical Seminar

Prerequisite: Consent of Instructor.

A seminar series in which current biomedical research projects are presented and discussed. Most seminars will be presented by visiting scientists recruited from research laboratories in industry and universities. Fall, Spring. Credit, 1 semester hour per semester with a limit of 4 hours.

499. Research in Biology

Restriction: Senior biology majors with a quality point average of 3.0 in the major.

Prerequisite: Consent of the instructor and approval of the research proposal by a committee composed of biology faculty.

Designed to provide the student with experience in the analysis and solution of problems in the areas of his major interests. The problems will be presented to the biology faculty in written form. Fall, Spring. Credit, 1 to 3 semester hours per semester with a limit of 6 hours.

BUSINESS ADMINISTRATION AND ECONOMICS*Chairman: EDWARD L. POWERS*

GEORGE T. AMMONS

JAMES J. BARDSLEY

SHARON BELL

OLLIE BISHOP

LEON M. BOLICH

JAMES R. FREDERICK

MAGNOLIA O. GRIFFITH*

BRUCE W. MATTOX, SR.

ROBERT D. MAYNOR

MICHAEL L. MENEFEE

JOHN PARSELL

CAROLYN ROBERTS

JOSEPH E. SANDLIN

DOUGLAS W. SCHELL

DAVID D. WILLIAMS

**Business Education Coordinator*

The Bachelor of Science degree may be earned in Business Administration or Business Education, with administration majors concentrating in management, accounting, office administration, or applied science. The Business Education curriculum leads to North Carolina Teacher Certification (with Vocational Business Certification). The track in Office Administration is designed to prepare students for careers in office occupations and administrative work (e.g. administrative assistant, office manager, etc.). The basic core of business studies emphasizes the broad background needed for successful competition in the dynamic work-world as well as preparation for further study in graduate programs. In addition, the Department offers minors in Business Administration and in Economics.

A program leading to the Bachelor of Arts degree in Economics is also offered. It provides students with a background for employment in financial institutions, private businesses, and government as well as graduate study in business, law, or economics.

Another departmental objective is to render service beyond the University and within the surrounding business community. Through a degree program in management in the University's Continuing Education Division, the Department serves students who are unable to attend daytime classes. Further assistance is supplied in placement services and special consultation to the business community at large.

Prospective students are strongly urged to consult a member of the faculty as soon as possible. To follow the courses in the necessary order, it is best to begin planning early.

Requirements for a Bachelor of Science Degree in Business Administration with a Concentration in Management

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
BUS 109, 227, 228, 303, 307, 308, 312, 313, 314, 314, 415, 441, 466	
ECN 201**, 202, 301	
MAT 107**, 118**	45
Electives (at least 9 hours of 300 or 400 level business administration or economics courses)	32
Total	128

*Students who plan a Major in Business Administration with a Concentration in Management should consult the following recommended sequence prior to registering for Basic Studies courses.

**Apply toward Basic Studies.

Recommended Sequence of Courses

	Fall			Spring		
1st year	MAT	107	3 ^a	MAT	118	3 ^a
	CMA	105	3	ECN	201	3 ^a
	BUS	109	3	CMA	106	3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	Orientation		<u>1</u>			
			16 hrs.			15 hrs.
2nd year	ECN	202	3	BUS	228	3
	BUS	227	3	ECN	301	3
	BUS	313	3	BUS	314	3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	PED Elec.		<u>1</u>	PED Elec.		<u>1</u>
			16 hrs.			16 hrs.
3rd year	BUS	307	3	BUS	308	3
	BUS	312	3	BUS	315	3
	BUS/ECN Elec.		3 ^b	Basic Studies		3
	Basic Studies		3	BUS/ECN Elec.		3 ^b
	Basic Studies		3	Gen. Elective		3
	Gen. Elec. or			Gen. Elec. or		
	BUS	303	<u>2/3</u>	BUS	303	<u>2/3</u>
			17/18 hrs.			17/18 hrs..

4th year	BUS	415	3	BUS	466	3
	Gen. Elec. or			Gen. Elec. or		
	BUS	441	3	BUS	441	3
	Gen. Elective		3	BUS/ECN Elec.		^{3^b}
	Gen. Elective		3	Gen. Elective		3
	Gen. Elective		<u>3</u>	Gen. Elective		<u>3</u>
			15 hrs.			15 hrs.

^aFulfils requirements of both Basic Studies and Major.

^bBUS/ECN electives must be on 300 or 400 level.

Requirements for a Bachelor of Science Degree in Business Administration with a Concentration in Accounting

		Sem. Hrs.
Orientation Requirement		1
Basic Studies Requirements*		50
Major Requirements		
BUS 109, 227, 228, 303, 307, 308, 312, 313, 314, 315, 316, 321, 322, 415, 417, 421, 423, 441, 458, 466		
ECN 201**, 202, 301, 304, 411		
MAT 107**, 118**		72
Electives		<u>5</u>
		Total 128 hrs.

*Students who plan a Major in Business Administration with a Concentration in Accounting should consult the following recommended sequence prior to registering for Basic Studies courses.

**Apply toward Basic Studies

Recommended Sequence of Courses

		Fall		Spring	
1st year	MAT	107	3 ^a	MAT	118
	BUS	109	3	CMA	106
	CMA	105	3	ECN	202
	ECN	201	3 ^a	Basic Studies	3
	Basic Studies		3	Basic Studies	3
	Orientation		<u>1</u>	PED Elec.	<u>1</u>
			16 hrs.		16 hrs.
2nd year	BUS	227	3	BUS	228
	BUS	313	3	BUS	314
	Basic Studies		3	Basic Studies	3
	Basic Studies		3	Basic Studies	3
	Basic Studies		3	Basic Studies	3
	PED Elec.		<u>1</u>	Basic Studies	<u>3</u>
			16 hrs.		18 hrs.

3rd year	BUS	307	3	BUS	303	3
	BUS	321	3	ECN	304	3
	BUS	423	3	BUS	308	3
	ECN	301	3	BUS	312	3
	Basic Studies		<u>3</u>	BUS	322	<u>3</u>
			15 hrs.			15 hrs.
4th year	BUS	315	3	BUS	316	3
	BUS	415	3	BUS	417	3
	BUS	421	3	BUS	441	3
	BUS	466	3	BUS	458	3
	ECN	411	3	Gen. Elec. or		
	Gen. Elective		<u>2</u>	BUS	460	<u>3^b</u>
			17 hrs.			15 hrs.

^aFulfills requirements of both Basic Studies and Major

^bRecommended during senior year for students preparing for CPA exam.

Requirements for a Bachelor of Science Degree in Business Administration with a Concentration in Office Administration

		Sem. Hrs.
Orientation Requirement		1
Basic Studies Requirements*		50
Major Requirements		
BED 202, 203, 213, 214, 303, 313, 403, 453		
BUS 109, 209, 227, 228, 312, 315		
ECN 201**, 202		
CMA 209 (or CMA 241, 242, 243)		49
Electives (at least six hours must be taken from courses approved within the Business Dept.)		<u>28</u>
Total		128

*Students who plan a Major in Business Administration with a Concentration in Office Administration should consult the following recommended sequence prior to registering for Basic Studies courses.

**Applies toward Basic Studies.

Recommended Sequence of Courses

	Fall		Spring	
1st year	CMA	105	3	CMA
	BUS	209	3	BUS
	PED Elec.		1	BED
	Orientation		1	.
	Basic Studies		3	Basic Studies
	Basic Studies		3	Basic Studies
	Basic Studies		<u>3</u>	Basic Studies
			17 hrs.	
				15-17 hrs.

2nd year	BUS	227	3	BED	203	2
	BED	202	2	BED	214	3
	BED	213	3	General Elec.		3
	PED Elec.		2	BUS	228	3
	Basic Studies		3	Basic Studies		3
	Basic Studies		<u>3</u>	Basic Studies		<u>3</u>
			16 hrs.			17 hrs.
3rd year	BED	303	3	ECN	202	3
	BED	313	3	BED	305	3
	ECN	201	^{3^b}	BUS	315	3
	Basic Studies		3	CMA	209 (or 241,	
	Basic Studies		3		242, 243)	3
	Basic Studies		<u>3</u>	General Elec.		<u>5</u>
			18 hrs.			17 hrs.
4th year	BUS	312	3	BED	403	3
	General Elec.		3	BED	453	3
	General Elec.		3	BUS Elec.		3
	General Elec.		3	BUS Elec.		3
	General Elec.		<u>3</u>	General Elec.		<u>2</u>
			15 hrs.			14 hrs.

^aNot required of students who have already reached this level of competency.

^bFulfills requirements of both Basic Studies and Major.

Requirements for a Bachelor of Science Degree in Business Education with a Concentration in a Comprehensive Business Curriculum (Teacher Education) (see p. 72 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements ^b	50
Major Requirements	
BED 202 ^a , 203 ^a , 214 ^a , 303, 305, 403, 440, 441, 450, 460	
BUS 109, 209, 227, 228, 315 or 316	
ECN 201 ^c	32-39
Professional Education Requirements	
EDN 202, 227, 308, 419, 437, 445, 448; BED 400	25
Academic Concentration ^e	18-21
Electives	<u>2-0^d</u>
Total	128-136

a,b,c,d,e: see below.

Recommended Sequence of Courses

	Fall			Spring		
1st year	CMA	105	3	CMA	106	3
	Orientation		1	BUS	109	3
	BUS	209	3	Acad. Con.		3
	Elective ^d		1	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
	Basic Studies		3			
17 hrs.				18 hrs.		
2nd year	CMA Lit. ^b		3	CMA Lit. ^b		3
	BUS	227	3	ECN	201 ^c	3
	Acad. Con.		3	BUS	228	3
	BED	202 ^a	2	Basic Studies		3
	Basic Studies		3	BED	214 ^a	3
	Basic Studies		3	EDN	227	3
	Elective ^d		1			
18 hrs.				18 hrs.		
3rd year	BED	303	3	Acad. Con.		3
	Acad. Con.		3	BUS	315 or 316	3
	EDN	202	3	BED	305	3
	HST ^b		3	BED	450	3
	Basic Studies		3	EDN	308	3
	BED	203 ^a	2	BED	441	1
	BED	440	1	EDN	437	1
18 hrs.				17 hrs.		
4th year	HST ^b		3	BED	400	3
	Acad. Con.		3	EDN	445	3
	Acad. Con.		3	EDN	448	6
	BED	403	3			
	EDN	419	3			
	BED	460	3			
				12 hrs.		

^aNot required of students who have already reached these levels of competency.

^bSee prescribed list of literature or history courses for Teacher Education.

^cFulfils requirements of both Basic Studies and Major.

^dNeeded only if BED 202, 203, 214 not taken.

^eSee concentrations offered by specific departments.

Requirements for a Bachelor of Arts Degree in Economics

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
ECN 201**, 202, 301, 313, 330, 401, and at least eighteen (18) additional semester hours of economics from the 300 level and above.	
MAT 107**, 108** (or equivalent), and 221	37
Electives	<u>40</u>
	Total 128

*Students who plan a Major in Economics should consult the following recommended sequence prior to registering for Basic Studies courses.

**Apply toward Basic Studies.

Recommended Sequence of Courses

	Fall			Spring		
1st year	ECN	201	3 ^a	ECN	202	3
	MAT	107	3 ^a	MAT	108	3 ^a
	CMA	105	3	CMA	106	3
	Basic Studies		3	BUS	109	3 ^d
	Basic Studies		3	Basic Studies		3
	Orientation		<u>1</u>	PED Elec.		<u>1</u>
			16 hrs.			16 hrs.
2nd year	MAT	221	4	BUS	227	3 ^b
	ECN	301	3	ECN Elec.		3 ^c
	ECN	313	3	PED Elec.		1
	Basic Studies		3	Basic Studies		3
	Basic Studies		3	Basic Studies		3
			<u>16 hrs.</u>			<u>16 hrs.</u>
3rd year	BUS	228	3 ^b	ECN	330	3
	BUS	307	3 ^b	BUS	312	3 ^b
	ECN Elec.		3 ^c	ECN Elec.		3 ^c
	ECN	401	3	ECN Elec.		3 ^c
	Basic Studies		3	Basic Studies		3
	Basic Studies		3			
			<u>18 hrs.</u>			<u>15 hrs.</u>
4th year	ECN Elec.		3 ^c	ECN Elec.		3 ^c
	BUS	415	3 ^b	BUS Elec.		3 ^b
	General Elec.		3	General Elec.		3
	General Elec.		3	BUS Elec.		3
	General Elec.		3	General Elec.		3
	General Elec.		<u>1</u>			
			<u>16 hrs.</u>			<u>15 hrs.</u>

^aFulfils requirements of both Basic Studies and Major.

^bRequired if a minor in Business Administration is also taken.

^cEconomics electives must be on the 300 level or above.

^dRecommended, but not required.

Requirements for a Bachelor of Science Degree in Applied Science in Business Administration

This program is described on p. 48. Students who plan to pursue a graduate degree should consult the department chairman before undertaking this program.

	Sem. Hrs.
Basic Studies Requirements ^b	50
Credit for degree of Associate in Applied Science (Business)	60
An individualized program of study based on 300 and 400 level courses in business administration and economics following the guidelines on page 48.	15
General electives	<u>3</u>
Total	128

Recommended Sequence of Courses^b

	Fall		Spring	
1st year	CMA 105	3	CMA 106	3
	Basic Studies	3	Basic Studies	3
	Basic Studies	3	Basic Studies	3
	Basic Studies	3	Basic Studies	3
	BUS/ECN Elec.	3 ^a	Basic Studies	3
	BUS/ECN Elec.	<u>3^a</u>		
		15 hrs.		18 hrs.
2nd year	Basic Studies	3	Basic Studies	3
	Basic Studies	3	Basic Studies	3
	Basic Studies	3	PED Elec.	1
	Basic Studies	3	PED Elec.	1
	Basic Studies	3	BUS/ECN Elec.	3 ^a
	BUS/ECN Elec.	<u>3^a</u>	BUS/ECN Elec.	3 ^a
		18 hrs.	General Elec.	3
				17 hrs.

^aBUS/ECN electives must be on 300 or 400 level.

^bEquivalent courses already taken in the Basic Studies program at a community college should not be repeated. However, an equivalent number of hours in other related courses must be taken at Pembroke State University with permission of the chairman of the department.

Requirements for a Minor in Business Administration

The Minor in Business Administration is designed to provide an opportunity for students to develop an understanding and appreciation of business as part of a liberal arts education.

Required Courses	Sem. Hrs.
BUS 227	Principles of Accounting I
BUS 228	Principles of Accounting II
BUS 307	Principles of Management
BUS 312	Marketing Management
BUS 415	Financial Management
ECN 201	Principles of Economics I
	<hr/>
	18 hrs.*

Requirements for a Minor in Economics

The Minor in Economics is designed to provide an opportunity for students to develop an overview and appreciation of economics as part of a liberal arts education.

Required Courses	Sem. Hrs.
ECN 201	Principles of Economics I
ECN	Principles of Economics II
ECN 301	Intermediate Micro-Economic Theory
Economics Electives on the 300/400 level	<hr/> 9-12 hrs.
	18 hrs.*

*Only 6 hours of the total number can also be used for Basic Studies, a major, or another minor.

COURSES

BUSINESS ADMINISTRATION (BUS)

109. Business Uses of the Computer

An introduction to the uses of microcomputers in business. Topics to be covered include an introduction to DOS, word processing, business software applications, and spreadsheet analysis. Fall, Spring. Credit, 3 semester hours.

209. Introduction to Business

A survey and operation analysis of business administration and organization. Consideration is given to such topics as legal forms of business, management, marketing, risk, accounting, statistics, and governmental regulations. A general course designed to all students. Fall. Credit, 3 semester hours.

227. Principles of Accounting I (Financial Accounting)

Introduction to accounting. The study of the basic accounting equation, transaction analysis and financial statements. Fall, Spring. Credit, 3 semester hours.

228. Principles of Accounting II (Managerial Accounting)

Prerequisite: BUS 227.

An introductory study of internal accounting with emphasis on cost analysis and budgeting. The course stresses the attention-directing and problem-solving function of accounting in relation to current planning and control, evaluation of performance, special decisions, and long-range planning. Fall, Spring. Credit, 3 semester hours.

303. Business Communications (BED 303, CMA 303)

Development of skill in the fundamentals of effective communication and detailed study of principles and application of business letters and business writings, including business reports and other forms of business communication. Fall, Spring. Credit, 3 semester hours.

307. Principles of Management

Introduction to the classical, behavioral, and management science philosophies of management. Emphasis upon planning, organizing, motivating, and controlling. Practical application of theories and mathematical models. Fall, Spring. Credit, 3 semester hours.

308. Organizational Theory and Behavior

Prerequisite: BUS 307.

Study of the formal and informal processes that take place within organizational entities. Course includes the study of bureaucracy, organizational effectiveness, organizational climate, communication structure, and the role of the individual. Fall, Spring. Credit, 3 semester hours.

312. Principles of Marketing

Prerequisite: ECN 201.

Basic principles of marketing. Emphasis is placed on consumer's role in marketing and on the marketing environment. The basic product, place, price, and promotion decisions are examined. Fall, Spring. Credit, 3 semester hours.

313. Business Statistics I (ECN 313)

A study of descriptive statistics including functional and summation notation, describing data graphically and numerically, probability theory, and probability distributions. Fall. Credit, 3 semester hours.

314. Business Statistics II (ECN 314)

Prerequisite: BUS 313.

A study of statistical inference including probability theory, random variables and probability distributions, testing, hypotheses, estimating unknown parameters, analysis of variance, and linear and multiple regression. Spring. Credit, 3 semester hours.

315. Business Law I

The legal environment of business, contracts, personal property, commercial transactions and business organizations. Fall, Spring. Credit, 3 semester hours.

316. Business Law II

Study of commercial papers, creditors' rights, real property, government regulation, insurance, and fiduciary relationships. Fall or Spring. Credit, 3 semester hours.

321. Intermediate Accounting I

Prerequisite: BUS 228.

A review of financial accounting procedures, and a detailed study of selected sections of the balance sheet and income statement. Consideration is given to the procedures required for proper financial statement presentation as prescribed by the AICPA and FASB. Fall. Credit, 3 semester hours.

322. Intermediate Accounting II

Prerequisite: BUS 321.

Continuation of BUS 321 covering liabilities and capital accounts, the funds flow statements, statement analysis, error correction, and price level adjusted statements. Spring. Credit, 3 semester hours.

334. Introduction to Computer Programming - COBOL (CSC 201)

Prerequisite: CSC 100 or permission of instructor.

A first course in programming. Introductory concepts of structured programming and algorithmic analysis with emphasis on data processing applications.

403. Office Management (BED 403)

Designed for training students to meet situations which will confront them in the modern business office: office standards, office control, physical facilities, general nature of office work, office personnel, modern labor organizations, wage determination, collective bargaining, public regulations. Spring. Credit, 3 semester hours.

408. Personnel Management

Prerequisite: BUS 307.

Study of personnel recruitment, selection, testing, management development, performance evaluation, wage and salary administration, employee benefits, and other areas of major concern to personnel managers and staff. Fall. Credit, 3 semester hours.

410. Small Business Management

Prerequisites: BUS 307, 312.

Consideration of opportunities and obstacles of starting and operating a small business. Emphasis will be on integrating all managerial requirements (financial, marketing, operational, legal, logistical, accounting, and behavioral) of owning and operating a small business. Study of the opportunities and assistance provided by franchises, federal, and local agencies. Fall. Credit, 3 semester hours.

412. Marketing Policy and Decisions

Prerequisites: BUS 307, 312; MAT 118.

Study of selected marketing topics including product differentiation, market segmentation, market research, and consumer behavior. Considers effect of the marketing mix and the development of total marketing strategy. As announced. Credit, 3 semester hours.

415. Financial Management

Prerequisites: BUS 228, 313.

The basic principles of financial management as they apply to various forms of business organization: financial planning and control, short and intermediate-term credit, sources of capital, and expansion and growth. Fall, Spring. Credit, 3 semester hours.

417. Income Tax Accounting

Prerequisite: BUS 228.

A comprehensive study of the federal income tax laws. Emphasis is given to application of the law for individuals. Spring. Credit, 3 semester hours.

418. Investment Analysis and Portfolio Management

Prerequisite: BUS 415.

Corporate and other securities as investments, the organization of the capital market, and the analysis and evaluation of securities and portfolios. As announced. Credit, 3 semester hours.

421. Advanced Accounting

Prerequisite: BUS 332.

Mergers and acquisitions accounting as well as preparation of consolidated statements after acquisition. Special accounting problems in consolidated financial statements, partnerships, pension funds, fund accounting, and fiduciary accounting. Fall. Credit, 3 semester hours.

423. Cost Accounting

Prerequisite: BUS 228.

Cost determination and analysis, cost control, and cost-based decision-making. Included are such topics as direct and indirect cost, application of burden, and responsibility accounting. Fall. Credit, 3 semester hours.

437. Experiential Learning I

Prerequisite: Consent of the Department Chairperson.

An innovative or significantly contributory project done outside the classroom, under academic and vocational supervision, for a business operation. (40 work hours per s.h.) Fall or Spring. Credit, 1-3 semester hours. Pass/Fail.

428. Experiential Learning II

Prerequisites: BUS 437, Consent of Department Chairperson

An innovative or significantly contributory project done outside the classroom under academic and vocational supervision, for a business operation. (40 work hours per s.c.h.) Fall or Spring. Credit, 1-3 semester hours. Pass/Fail.

441. Production Management

Prerequisites: BUS 307, 313.

Operations management is presented through a study of production functions. Analytical techniques are applied to production problems. Fall, Spring. Credit, 3 semester hours.

458. Auditing

Prerequisite: BUS 322.

The theory and application of generally accepted auditing standards used in the examination of financial statements are the areas of primary concern. The role of internal control review, working papers, audit programs, and the auditor's liability are considered along with selected case studies. Spring. Credit, 3 semester hours.

460. Senior Seminar in Accounting

Prerequisite: Consent of Instructor.

A seminar designed to pursue specific topics in the field of accounting. Spring. Credit, 3 semester hours. Pass/Fail.

465. Quantitative Business Analysis

Prerequisites: BUS 307, 313, 314.

An introduction to basic mathematical concepts and their application to decision models in management situations. Topics including linear programming, PERT-CPM, optimization, queuing theory, transportation modeling, regression, and correlation. As announced. Credit, 3 semester hours.

466. Business Policy

Prerequisites: BUS 307, 312, 415.

Decision-making and analysis of complex business problems. Integrates knowledge from all functional areas of business and economics including managerial economics, management science, marketing, finance, accounting, production, and research and development. Fall, Spring. Credit, 3 semester hours.

496. Management Internship I

Prerequisite: Permission of the Chairperson; Accounting, Management, or Office Administration majors only.

A work experience in an operating business where the student, under academic and vocational supervision, participates in actual managerial functions. (Work time is 40 hours per s.h.) Fall, Spring. Credit, 3 semester hours. Pass/Fail.

497. Management Internship II

Prerequisites: Permission of the Chairperson; BUS 496; Accounting, Management or Office Administration majors only.

A work experience in an operating business where the student, under academic and vocational supervision, participates in actual managerial functions. (Work time is 40 hours per s.h.) Fall, Spring. Credit, 3 semester hours. Pass/Fail.

499. Senior Seminar in Management

Prerequisites: Consent of Instructor.

Designed to pursue specific topics in the field of management, and to prepare senior students for graduate work in management. As announced. Credit, 3 semester hours.

BUSINESS EDUCATION (BED)**201. Beginning Typewriting**

The development of fundamental skills of typewriting including: the touch system of typing with a mastery of the keyboard, the ability to accurately type business and personal letters, reports, and tabulation problems, and the ability to apply correct English usage to typewritten materials. Fall, Spring. Credit, 2 semester hours.

202. Intermediate Typewriting

Prerequisite: BED 201.

Further emphasis on basic typewriting skills. The development of skills in the areas of duplicating, preparation of office forms, business letters, manuscripts, compositions, and other forms of business correspondence. Fall. Credit, 2 semester hours.

203. Advanced Typewriting

Prerequisite: BED 202.

Emphasis on sustained production of various kinds of typewriting problems encountered in the modern business office. Spring. Credit, 2 semester hours.

213. Beginning Shorthand I

Fundamental principles of Gregg shorthand with special emphasis on accuracy and speed. Practice work in dictation and transcription. Ability to take dictation at 80 words a minute and to transcribe easily and accurately. Three lectures and two laboratories weekly. Fall. Credit, 3 semester hours.

214. Beginning Shorthand II

Prerequisite: BED 213.

This course is designed to develop the student's ability to construct outlines for unfamiliar words under the stress of dictation; to extend the students' knowledge of the basic nonshorthand elements of transcription; to give the students a solid foundation for rapid and accurate transcription; to develop the ability to take dictation at the rate of 80-90 words per minute. Three lectures and two laboratories weekly. Spring. Credit, 3 semester hours.

303. Business Communications (BUS 303, CMA 303)

Development of skill in the fundamentals of effective communication and detailed study of principles and application of business letters and business writings, including business reports and other forms of business communication. Three lectures weekly. Fall, Spring. Credit, 3 semester hours.

305. Business Machines

Prerequisite: BED 201.

Development of vocational proficiency on the following machines: Electronic calculator (students develop skills in operating machine and competency in business math covering the following areas: percents, interests, discounts, merchandising calculations, payroll records, annuities, stocks and bonds, and consumer credit), dictation and transcription equipment, stencil fluid duplicators, word processors and micro-processors. Spring. Credit, 3 semester hours.

313. Advanced Shorthand

Prerequisite: BED 214.

A second-year course in shorthand, consisting of rapid dictation and rapid transcription. Mastery of principles of Gregg shorthand. Ability to take dictation at a rate of 100 or 120 words a minute. Three lectures and two laboratories weekly. Fall. Credit, 3 semester hours.

400. Methods of Teaching Business Education

Purposes, methods, materials, techniques, and evaluation procedures in business education. Preparation of teaching plans and materials. Fall or Spring. Credit, 3 semester hours.

403. Office Management (BUS 403)

Designed for training students to meet situations which will confront them in the modern business office: office standards, office control, physical facilities, general nature of office work, office personnel, modern labor organizations, wage determination, collective bargaining, public regulations. Fall or Spring. Credit, 3 semester hours.

440. Secretarial Internship I

Prerequisites: BED 203, 313.

Supervised work experience in cooperating business offices, whereby student develops and refines occupational competencies. One semester hour is granted for 125 hours of on-the-job work. Fall, Spring. Credit, 1 semester hour.

441. Secretarial Internship II

Prerequisites: BED 203, 313.

Supervised work experience in cooperating business offices, whereby student develops and refines occupational competencies. One semester hours is granted for 125 hours of on-the-job work. Fall, Spring. Credit, 1 semester hour.

450. Principles and Problems of Business Education

Aims and objectives of business education. Evaluation of various business curricula in relation to modern education philosophy, trends and problems in business education, and findings in research in business education. Three lectures weekly. Fall or Spring. Credit, 3 semester hours.

453. Secretarial Office Practice

A terminal course designed to consolidate office attitudes, knowledge, skills, and procedures which are necessary to function efficiently in today's business office. This course includes instruction in filing, the use of business forms, the use of the newest, essential office machines, and the development of decision-making skills. Fall or Spring. Credit, 3 semester hours.

460. Administration and Supervision of Business & Office Education

Study of the leadership functions in business and office education at the federal, state, and local levels; planning and organizing Business and Office Education Programs at the secondary school; procedures for organizing youth organizations; and coordinating co-operative business education programs. Fall or Spring. Credit, 3 semester hours.

ECONOMICS (ECN)**201. Principles of Economics I**

This course provides an overall picture of the operation of our economy. The following topics are emphasized: introduction to American capitalism, national income, level of employment, fiscal policy, monetary policy, and economic growth. Fall, Spring. Credit, 3 semester hours.

202. Principles of Economics II

This second part of the principles course in economics concentrates on the determination of prices in competitive and monopolistic markets, the distribution of income along functional lines, and international economic systems. Fall, Spring. Credit, 3 semester hours.

206. Economic Geography (GGY 206)

Location, development and distribution of major industries, agricultural products, and economic services. Fall, Spring. Credit, 3 semester hours.

301. Intermediate Micro-Economic Theory

Prerequisites: ECN 201, 202.

Price determination, income distribution, and resource allocation in a market economy. Fall, Spring. Credit, 3 semester hours.

304. Money and Banking

Prerequisites: ECN 201, 202.

A study of financial institutions and their role in the economy, and an analysis of the functions of money and credit. Fall or Spring. Credit, 3 semester hours.

313. Statistics I (BUS 313)

A study of descriptive statistics including functional and summation notation, describing data graphically and numerically, probability theory, and probability distributions. Fall. Credit, 3 semester hours.

314. Statistics II (BUS 314)

Prerequisite: BUS 313.

A study of statistical inference including probability theory, random variables and probability distributions, testing hypotheses, estimating unknown parameters, analysis of variance, and linear and multiple regression. Spring. Credit, 3 semester hours.

330. Public Finance (PLS 331)

Prerequisites: ECN 201, 202.

A study of revenue and expenditures on all governmental levels in the United States. As announced. Credit, 3 semester hours.

340. International Trade

Prerequisites: ECN 201, 202, 304.

An introduction to international trade, the balance of payments, and related issues of foreign economic policy. As announced. Credit, 3 semester hours.

341. Economic History of the United States (HST 341)

Prerequisites: HST 201 or permission of instructor.

A thematic study of the economy of the United States from colonization to the present. Spring. Credit, 3 semester hours.

401. Intermediate Macro-Economic Theory

Prerequisites: ECN 201, 202.

Determination of the national income and its components. Economic growth and fluctuations. The influence of public policy on the production and employment level and on the distribution of the national income. As announced. Credit, 3 semester hours.

406. Economic Systems

Prerequisites: ECN 201, 202.

A comparative study of alternative economic systems, including communism, socialism, fascism, and capitalism. As announced. Credit, 3 semester hours.

407. Economics of Labor

Prerequisite: ECN 201, 202.

Examines the nature of the labor markets and problems dealing with labor groups. Topics include history of the labor movement, union structure, labor law, collective bargaining. As announced. Credit, 3 semester hours.

411. Development of Economic Thought

Prerequisites: ECN 201, 202.

A basic course in the development of economic theories and doctrines, ranging from the Greek to the present day. Fall. Credit, 3 semester hours.

419. Senior Seminar in Economics

Prerequisite: Consent of instructor.

A seminar featured to prepare students for graduate work in economics. As announced. Credit, 3 semester hours.

COMMUNICATIVE ARTS*Chairman: THOMAS J. LEACH*

RANDY BARKER
NANCY W. BARRINEAU
WILLIAM BIDDLE
MONIKA BROWN
MAXWELL COURSON
ALBERT D. DUNAVAN
THERESA G. HALE*
CHESTER I. JORDAN
ANNE LOCKWOOD*
JOSEF L. MANDEL + + +
CHARLES B. MOORE
C. DOUGLAS NORMAN

SARA OSWALD
OSCAR PATTERSON, III
ROBERT W. REISING
HANS-JOACHIM RINTELMANN***
RAYMOND J. RUNDUS
DENNIS H. SIGMON +
SHELBY D. STEPHENSON
SANDRA M. STRATIL*
PATRICIA D. VALENTI
RICHARD R. VELA**
ANN F. WELLS
RUDY D. WILLIAMS + +

*College Opportunity Program

+ English Education Coordinator

**Director of Composition

+ + Graduate English Education

***Visiting Fulbright Lecturer

Coordinator

+ + + Fulbright Exchange Professor

The Communicative Arts Department of Pembroke State University exists for the common good of its students, of the campus community, and of a rational and humane society. To serve these purposes, the Department attempts to offer distinctive, realistically conceived, and well-executed programs for (1) the Basic Studies student, to whom a wide choice of courses is available; (2) the Communicative Arts Major, in four areas; (3) the Foreign Language student (French, Spanish, and German); (4) the student seeking North Carolina Teacher Certification in English; (5) the student majoring in another subject area who wishes to develop a minor in the Communicative Arts Department or simply to choose an elective or two; and (6) the in-service teacher seeking post-graduate work in English Education; see the Graduate Program Section of this catalog for a description of the M.A. Ed. (English Education) program and individual courses. The Department recognizes that each program has a different philosophy and different objectives and seeks to make the student responsive to the philosophy and objectives of the student's particular program.

Information is available in the Department office about advisement and screening procedures for Communicative Arts majors. Also available is information about developing minors in French, Journalism, Language, Literature, Public Relations Communications, Speech, Theatre, and Writing. These are offered to Communicative Arts majors as well as to students majoring in other areas.

Pembroke Magazine, housed in the Department of Communicative Arts and founded in 1969 by the late Norman Macleod while at Pembroke State University, focuses on

North Carolina, national, and international writers. It publishes both beginning and established writers.

The University operates WPSU-TV, a public television facility. All students majoring in Broadcasting are expected to work at the facility or possibly serve an internship there. The station is operated completely by students under the direction of the Director of Telecommunications. Not limited to Broadcasting students, positions at the station are available to all qualified students.

The Communicative Arts Department recommends that all of its majors study a foreign language throughout their college careers; six semester hours are required.

CMA 105 (Composition I) and CMA 106 (Composition II) are prerequisite to all 200-level "core" courses and all required major courses except for CMA 250 (Introduction to Theatre).

All full-time students must enroll in Composition I during their first semester of full-time study and continue consecutively thereafter until they successfully complete both CMA 105 and CMA 106, the six-hour required sequence.

DRAMATIC LITERATURE AND PERFORMANCE

Requirements for Bachelor of Arts Degree in Communicative Arts: Dramatic Literature and Performance Major

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirement*	50
Major Requirements	
"Core" Major Courses: CMA 100 or 101; CMA 354 and 457; six semester hours of foreign language	15
CMA 201, Elementary Acting	
CMA 233, Stagecraft	
CMA 250, Introduction to Theatre;	
CMA 353, Theater Management;	
CMA 360, History of the Theatre: the Beginning to 1642:	
CMA 361, History of the Theatre: 1642 to the Present: and	
CMA 162, 163, 262 - Play Production	21
Twelve hours of major courses from the following: CMA 263-463, 164, 165, 234, 235, 301, 304, 315, 322, 323, 331, 333, 334, 401, 453, 454	12
Electives	29
Total	128

*Students who plan a major in Dramatic Literature and Performance should consult with the Department Chairman prior to registering for Basic Studies courses.

ENGLISH EDUCATION

The English Education program helps prospective teachers develop a personal philosophy of teaching as it attempts to help them become effective teachers of writing, reading, speaking, listening, and viewing. It hopes to explain the futility of teaching

any facet of English in isolation and to inspire prospective teachers to be creative, original, willing, positive, untiring and resilient.

Five courses required for certification constitute the core of the program: 376 or 379, 382 or 383 (for Elementary and Middle Grades Certification); 379 and 384 (for Secondary English Certification). While up to four semester hours of experiential-learning credit may be earned in EED 399 (Practicum in Composition Tutoring), three semester hours in "practicum" courses are required, chosen from tutoring, play production, year book production, and newspaper production.

A Master's degree is also available in English Education from Pembroke State University: see **Graduate Program** section.

Requirements for a Bachelor of Arts Degree in Communicative Arts: English Education Major (Teacher Certification)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
"Core" Major Courses: CMA 100 or 101 and six semester hours of the same foreign language	9
Required Upper-Division Major Courses: CMA 205, 206, 221, 246, 302, 346, 370, 371, 457, 465; EED 379 and 384	36
Three hours chosen from CMA 162-163; 262-263; 362-363; 462-463; 164, 165, 234, 235; 182-184; 282-284; and EED 399	3
Professional Education Requirements: EDN 202, 227, 308, 419, 437, 445, 448; EED 400	25
Electives	4
	<hr/>
Total	128

*Students who plan a major in English Education should consult with the Coordinator of Undergraduate English Education in the Department of Communicative Arts prior to registering for Basic Studies courses. Students must meet all requirements for Teacher Education programs (See p. 72).

LITERATURE

Requirements for a Bachelor of Arts Degree in Communicative Arts: Literature Major

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
"Core" Major Courses: CMA 100 or 101, CMA 205, 206; six semester hours of the same foreign languages	15
Required Courses: CMA 221, 246, 302, 354, 356, 366, 457, 465	24
Six hours of courses chosen from: CMA 277, 346, 370, 371; PSY 422	6
Electives	32
	<hr/>
Total	128

*Students who plan a major in Literature should consult with the Department Chairman prior to registering for Basic Studies Courses.

CONTRACTED MAJORS: MASS COMMUNICATIONS, ARTS MANAGEMENT, AND OTHERS

The Department of Communicative Arts offers several special contracted majors. Mass Communications at Pembroke State University covers the areas of Broadcasting, Journalism, and Public Relations. The program is part of the Contracted Degree Major in the Department of Communicative Arts. Students who elect to participate in this program receive contracted academic courses in the specific field selected—Broadcasting, Journalism, or Public Relations Communications—as well as the opportunity to become involved with WPSU-TV, the University's public affairs television station, or The Pine Needle, the campus newspaper.

Students enrolled in the Mass Communication program take 15 hours of "core" major courses, including Speech Communication and Foreign Language. Courses in the specific area—Broadcasting Journalism, or Public Relations—require an additional 36 semester hours. Broadcasting and Public Relations students are expected to complete a professional internship as part of their program of study.

Other Contracted Majors are available, including Arts Management and individually designed majors. For more information, consult the Chairman of the Department of Communicative Arts. A major in Theatre Education is awaiting approval from the North Carolina State Department of Public Instruction.

Requirements for a Bachelor of Arts Degrees in Communicative Arts: Contracted Major (Broadcasting, Journalism, Public Relations Communication, Arts Management, etc.)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
"Core" Major Courses: CMA 100 or 101; and six semester hours of 200-level literature; six semester hours of foreign language	15
Approval of Contract	
Thirty-three semester hours of "Contracted" major courses (see Department publications for specific requirements in certain of the contracted majors)	33
CMA 455, Directed Studies Seminar	3
Electives	26
Total	128

*Students who plan a major in one of the "Contracted" majors should consult with the Department Chairman prior to registering for Basic Studies courses.

Academic Concentration in Communicative Arts

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Department of Communicative Arts offers an Academic Concentration of 24 hours. This Academic Concentration is available to other students, regardless of major.

- | | |
|---|-------------------|
| 1. "Core" Courses..... | 9 hours |
| a. a speech course (3 hours): choose one | |
| CMA 100 - Interpersonal Communication | |
| CMA 101 - Fundamentals of Speech | |
| b. a 200-level Basic Studies literature course (3 hours): choose one | |
| CMA 203 - Introduction to Literature, | |
| CMA 205 - World Literature I, | |
| CMA 206 - World Literature II | |
| c. a 200-level "major authors" course (3 hours): choose one | |
| CMA 221 - Major American Authors | |
| CMA 246 - Major British Authors | |
| 2. a 200-level literature elective (any course not taken under 1) | 3 hours |
| (for approved electives see advisor or Communicative Arts Department) | |
| 3. a 300-level language course: choose one | 3 hours |
| CMA 346 - Aspects of the English Language | |
| CMA 371 - English Grammar | |
| CMA 381 - The English Language in American Society | |
| 4. a 200/300-level writing course: choose one | 3 hours |
| CMA 240 - Newswriting and Reporting I | |
| CMA 277 - Creative Writing I | |
| CMA 305 - Feature Writing | |
| CMA 309 - Editorial Writing | |
| CMA 370 - Advanced Composition | |
| 5. a 300/400 level literature course: choose one | 3 hours |
| CMA 354 - Modern Drama | |
| CMA 356 - Modern Fiction | |
| CMA 366 - Modern Poetry | |
| CMA 457 - Shakespeare | |
| CMA 465, 466 - Seminar in Literature | |
| 6. a 300/400 level elective (any course not taken under 3, 4, 5) | 3 hours |
| (for approved electives see advisor or Communicative Arts Department) | |
| | TOTAL 24 hours |

Requirements for Language Arts Certification

Middle Grades Education (6-9)

1. CMA 205 World Literature I or CMA 206 World Literature II
2. CMA 221 Major American Authors
3. *EED 379 The Teaching of Writing and Speech, 6-9, 9-12
4. *EED 383 Children's Literature (6-9)
5. *EDN 425 Classroom Diagnosis of Reading Difficulties
6. CMA 371 English Grammar
7. CMA 100 Interpersonal Communication or CMA 101 Fundamentals of Speech
8. CMA 246 Major British Authors or
 CMA 205 or CMA 206 (whichever was not taken in #1 above)

9. CMA 346 Aspects of the English Language
10. one 300- or 400-level literature course from the following:
 - CMA 302 Literary Analysis and Interpretation
 - CMA 354 Modern Drama
 - CMA 366 Modern Poetry
 - CMA 457 Shakespeare
 - CMA 465 Seminar in Literature

*Courses that are not already included in the Communicative Arts Concentration.

Students planning to major in Middle Grades Education (6-9), with a Language Arts Concentration, should consult with the Coordinator of Undergraduate English Education in the Department of Communicative Arts. Checksheets for the program can be obtained from the department secretary.

MINOR PROGRAMS

Each Communicative Arts Minor consists of 18 hours selected from courses listed under the Minor Program. Six of these hours may be "duplicated"—see Department Chair for information.

Options for a Minor in French

- | | |
|----------|-------------------------------------|
| 132 | Elementary French |
| 231, 232 | Intermediate French |
| 255, 256 | French Conversation and Composition |
| 321, 322 | Survey of French Literature |
| 361 | French Civilization and Culture |
| 451 | Study Abroad: Study Tour of France |

- | | |
|---|--|
| CSC 100 | *Introduction to Computer Science |
| CSC 200 | *Introduction to Computer Programming — FORTRAN |
| CSC 201 | *Introduction to Computer Programming — COBOL |
| PSY 422 | Seminar on Psycholinguistics: Psychology of Language |
| 3-6 hours of French or Spanish | |
| *3-6 hours of Computer Science allowed. | |

Options for a Minor in Language

- | | |
|-----|--|
| 100 | Interpersonal Communication |
| 101 | Fundamentals of Speech |
| 212 | Vocabulary Building |
| 242 | English Usage |
| 243 | Sentence Mastery |
| 315 | Voice and Diction |
| 346 | Aspects of the English Language |
| 370 | Advanced Composition |
| 371 | English Grammar |
| 381 | The English Language in American Society |
| 420 | Issues in Contemporary American English |
| 455 | Directed Studies Seminar |

Options for a Minor in Journalism

- | | |
|---------------------------------|-------------------------------------|
| *12 hours selected from: | |
| 209 | Public Relations |
| 210 | Introduction to Mass Communications |
| 211 | Spelling |
| 212 | Vocabulary Building |
| 242 | English Usage |
| 243 | Sentence Mastery |
| 244 | Punctuation |
| 277 | Creative Writing I |
| 306 | News Editing and Typography |
| 308 | Literary Journalism |
| 313 | Broadcast Copywriting |

370 Advanced Composition
 381 The English Language in American Society

ART 107 Photography

*6 hours of Journalism courses from:

240 Newswriting and Reporting I
 305 Feature Writing
 309 Editorial Writing
 340 Newswriting and Reporting II
 390 Community Journalism

Options for a Minor in Literature

203 Introduction to Literature
 204 Mythology of All Peoples
 205 World Literature I
 206 World Literature II
 207 Studies in Literature
 220 American Indian Literature
 221 Major American Authors
 246 Major British Authors
 302 Literary Analysis and Interpretation
 354 Modern Drama
 356 Modern Fiction
 366 Modern Poetry
 450 Seminar in American Indian Literature
 457 Shakespeare
 465, 466 Senior Seminar in Literature
 FRH 321,
 322 Survey of French Literature

At least six of the twelve unduplicated hours must come from 300- or 400-level courses.

Options for a Minor in Public Relations Communication

100 or Interpersonal Communication
 101 Fundamentals of Speech
 209 Public Relations
 210 Introduction to Mass Communications
 240 Newswriting and Reporting I
 305 Feature Writing
 350 Organizational Communications
 409 Advanced Public Relations Communication

ART 107 Photography
 BUS 312 Marketing Management
 PSY 317 Psychology of Social Communication

Options for a Minor in Speech

100 Interpersonal Communication
 101 Fundamentals of Speech
 201 Elementary Acting
 209 Public Relations
 213 Pronunciation
 315 Voice and Diction
 316 Television Production
 358 Discussion and Debate

Options for a Minor in Writing

211 Spelling
 212 Vocabulary Building
 242 English Usage
 243 Sentence Mastery
 244 Punctuation
 277 Creative Writing I
 302 Literary Analysis and Interpretation
 346 Aspects of the English Language
 370 Advanced Composition
 377 Creative Writing II
 426 Creative Writing Workshop
 455 Directed Studies Seminar
 EED 379 The Teaching of Writing and Speech (6-9, 9-12)

3 hours of Journalism from
 240 Newswriting and Reporting I
 305 Feature Writing
 309 Editorial Writing
 340 Newswriting and Reporting II

Options for a Minor in Theatre

162-463 *Play Production
 164 **Stage Make-up
 165 **Costumes for the Actors
 201 Elementary Acting
 233 Stagecraft
 234 **Scene Design
 235 **Stage Management
 250 Introduction to the Theater

301	Advanced Acting	360, 361	History of the Theatre
315	Voice and Diction	401	Advanced Acting II
322, 323	Special Topics in Theatre		Participation in at least two University
331	Play Direction		Theatre Productions is required
33	Lighting		*One hour credit—up to four hours
353	Theatre Management		allowed.

**One hour credit—Half semester course.

COURSES COMMUNICATIVE ARTS

BASIC COMMUNICATION SKILLS (CMA)

100. Interpersonal Communication

Interpersonal communication behaviors that influence interpersonal relationships. Emphasis on developing personal skills and attitudes in one-to-one relationships and small groups. Fall, Spring, Summer. Credit, 3 semester hours.

101. Fundamentals of Speech

Introduction to the fundamentals of public speaking for the beginning student. Based on classical theory and practice. Fall, Spring, Summer. Credit, 3 semester hours.

104. Written Communication Skills

Required for students who do not pass the freshman writing sample and all students entering the College Opportunity Program.

Study and practice of basic skills in written communication emphasizing sentence mastery and organization and development of paragraphs. Pass/Fail grading. Fall, Spring, Summer. Credit, 3 semester hours (will not count toward graduation requirements).

105. Composition I

Prerequisite: Passing grade on the freshman writing sample or passing grade in CMA 104.

Practice in writing, organization skills, personal and expository writing, editing, and various rhetorical modes. Fall, Spring, Summer. Credit, 3 semester hours.

106. Composition II

Prerequisite: "C" grade or better in CMA 105.

Practice in critical reading, writing, and research skills in a variety of rhetorical modes, with an emphasis on analysis and argumentation. A 1500-2000 word research paper will be required. Fall, Spring, Summer. Credit, 3 semester hours.

211. Spelling

Prerequisite: "C" grade or better in both CMA 105 and 106.

A review of major spelling rules in English, with special attention to particular words that often give difficulty. Attention to techniques to aid memorization of particular problem words. Fall. Credit, 1 semester hour.

212. Vocabulary Building

Prerequisite: "C" grade or better in both CMA 105 and 106.

A study of methods of vocabulary enrichment (such as association by sound, appearance, meaning, and knowledge of common root, prefix, and suffix meanings). Specific words will be studied. Fall. Credit, 1 semester hour.

213. Pronunciation

Prerequisite: "C" grade or better in both CMA 105 and 106.

An intensive course to improve students' competence and confidence in oral use of language. Word attack skills and specific problem words included. Fall. Credit, 1 semester hour.

242. English Usage

Prerequisite: "C" grade or better in both CMA 105 and 106.

Intensive review of parts of speech and their use in the sentence. Study of punctuation forms. Analysis of verb problems and errors that obscure meaning or distract readers. Spring. Credit, 1 semester hour.

243. Sentence Mastery

Prerequisite: "C" grade or better in both CMA 105 and 106.

Practice in imitating various sentence structures to add variety and impact to writing. Spring. Credit, 1 semester hour.

244. Punctuation

Prerequisite: "C" grade or better in both CMA 105 and 106.

Study of specific punctuation rules and their application, with particular emphasis on commas, semicolons, and apostrophes. Spring. Credit, 1 semester hour.

303. Business Communications (BUS 303)

Development of skill in the fundamentals of effective communication and detailed study of principles and application of business letters and business writings, including business reports and other forms of business communication. Fall, Spring. Credit, 3 semester hours.

BRITISH AND AMERICAN LITERATURE (CMA)**220. American Indian Literature (AIS 220)**

Prerequisites: CMA 105, 106.

An introduction to American Indian literature. Texts written, collected or edited by American Indians will be used whenever possible. As announced. Credit, 3 semester hours.

221. Major American Authors

Prerequisites: CMA 105, 106.

An overview of major trends and movements through a reading of works by such significant writers as Poe, Hawthorne, Melville, Emerson and/or Thoreau, Whitman, Twain, Frost, Hemingway, Faulkner. Reading requirements will include a full-length novel. As announced. Credit, 3 semester hours.

246. Major British Authors

Prerequisites: CMA 105, 106.

An overview of major trends and movements through a reading of works by significant writers from the Middle Ages to the present, including Chaucer, Shakespeare, Milton, Swift, Pope, Browning, Yeats, and Eliot. Reading requirements will include a full-length novel. As announced. Credit, 3 semester hours.

366. Modern Poetry

A study of poetry with emphasis on British and American writers. As announced. Credit, 3 semester hours.

378. The American West: Myth and Reality (HST 378)

An interdisciplinary study of myth and reality of the American West as developed through film, literature and history. Although the course will emphasize the events of the period from 1850-1890, it will also attempt to show the influence of the West as a concept down to the present. Spring. Credit, 3 semester hours.

450. Seminar in American Indian Literature (AIS 450)

Prerequisite: Permission of instructor.

A study of selected topics in American Indian literature. As announced. Credit, 3 semester hours.

457. Shakespeare

Prerequisite: CMA 246 recommended.

An introduction to the Elizabethan theatre, a study of Shakespeare's career as a dramatist, and a critical survey of a number of major plays—histories, comedies, and tragedies. Fall. Credit, 3 semester hours.

465, 466. Seminar in Literature

Prerequisite: Upper-division standing in the University.

Study in a small group setting of particular figures or topics in British, American, or World Literature. Each student must contribute an extended essay or equivalent work as part of the seminar experience. Fall, Spring. Credit, 3 semester hours.

BROADCASTING/MASS COMMUNICATIONS (CMA)**210. Introduction to Mass Communications**

An introduction to the cultural effects of radio, film, television, and print (books, magazines, and newspapers) and the forces that shape their form and content. Spring. Credit, 3 semester hours.

312. Broadcast Programming

Prerequisite: CMA 210 or consent of instructor.

The history, development, and impact of broadcast programming. Attention will be paid to program creation, survival, and audience attitudes/ratings. Analysis of current programming is included. Overview of basic programming development at both local and network levels. Both television and radio programming formats included. As announced. Credit, 3 semester hours.

313. Broadcast Copywriting

Prerequisites: CMA 316 or permission of instructor.

Theory and technique of writing broadcast scripts, to include scripts of dramas, interviews, documentaries, and advertisement or promotions. Will include both study and practical application of techniques discussed. Script formats for radio and television included. Spring, even-numbered years. Credit, 3 semester hours.

314. Broadcast Journalism

Prerequisite: CMA 210.

The theory and practice of broadcast news, to include covering local and national news and public affairs for radio and television. Emphasis will be on gathering and production for broadcast news. Writing for broadcast sports and weather will also be covered. Spring, odd-numbered years. Credit, 3 semester hours.

316. Television Production

Prerequisites: CMA 210 or permission of Department Chairman.

Basic theory and practice of studio operations in television, with laboratory experience in the use of control boards, records, cameras, switching and editing equipment, microphones, and related equipment. 3 hours lecture, 3 hours lab. Fall. Credit, 3 semester hours.

358. Discussion and Debate

An exploration of various discussion techniques, including parliamentary procedure, where the essentials of argumentation will be explained and practiced. As announced. Credit, 3 semester hours.

390. Community Journalism (see under "Journalism")**405. Law and Ethics in Public Communications**

Legal and ethical considerations as they apply to the daily work of media practitioners. Emphasis on codes of ethics, professional codes, and state, federal, and local law. As announced. Credit, 3 semester hours.

408. Broadcast Management and Law

Prerequisites: CMA 210 or consent of the instructor.

Study of the social, economic, and legal responsibilities of management in the broadcasting station. Attention will be given to the managerial function of the broadcasting executive. The sociopolitical control of broadcasting to include local, state, and federal regulation of the industry. Emphasis will be placed on the unique place of broadcasting among the media in terms of regulation. As announced. Credit, 3 semester hours.

413. Internship in Broadcasting

Prerequisites: CMA 210, 240, 312 or 313, 316.

Practical application of the principles of broadcasting in the workplace. Intern will work in a television or radio station under direct supervision of station department head. Research will also be conducted in an area of broadcasting relevant to internship experience. Fall, Spring. Credit, 3-6 semester hours.

416. Broadcast Advertising and Sales

Production of successful broadcast advertising campaigns. Emphasis on creative, practical solutions to problems in broadcast advertising. Spring. Credit, 3 semester hours.

419. Advanced Television Production

Prerequisite: CMA 316.

An advanced study and practice of television with studio experience in solving the problems of production, design, direction, and performance. 3 hours lecture, 3 hours lab. Spring. Credit, 3 semester hours.

436. Mass Communication Research: Tactics and Strategies

Examination of the critical role of information gathering and reporting in the field of Mass Communications. Emphasis on information acquisition, ethical information utilization, and preparing a publishable paper on a selected topic. Fall. Credit, 3 semester hours.

475. Film Literacy

A course in film analysis including an introduction to elements of film study, a brief survey of film history, and an exploration of significant directors, themes, or types of film. As announced. Credit, 3 semester hours.

COMPARATIVE AND WORLD LITERATURES (CMA)**203. Introduction to Literature**

Prerequisites: CMA 105, 106.

A study of the basic structure or elements of the various genres of literature including poetry, prose fiction, and drama. Readings include works of major authors of British, American and World literature. Fall, Spring, Summer. Credit, 3 semester hours.

204. Mythology of All Peoples

Prerequisites: CMA 105, 106.

A study of mythic motifs and themes in oral and early written literature, including Asian, African, and American Indian, as well as Greco-Roman and Teutonic-Norse literature; development of mythic traditions in early and modern societies. As announced. Credit, 3 semester hours.

205. World Literature I

Prerequisites: CMA 105, 106.

A study primarily of Western Literature, emphasizing the contributions of its greater writers to both the representative culture and the subsequent tradition, through the Renaissance. Fall, Spring, Summer. Credit, 3 semester hours.

206. World Literature II

Prerequisites: CMA 105, 106.

A study of the greatest works and authors of primarily Western literature from the seventeenth to the present century. Fall, Spring, Summer. Credit, 3 semester hours.

207. Studies in Literature

Prerequisites: CMA 105, 106.

Study of a specific genre or topic in world literature: its characteristics and significance as both a cultural product and a form of literary expression. Title and topic will vary from year to year. As announced. Credit, 3 semester hours.

302. Literary Analysis and Interpretation

Prerequisite: Six hours of literature.

An introductory study of critical approaches to literature with practice in analyzing and interpreting representative works both in the Anglo-American tradition and in English translation. Fall. Credit, 3 semester hours.

354. Modern Drama

Prerequisite: Six semester hours of 200-level literature.

A study of selections from the drama of the Western world of the nineteenth and twentieth centuries. As announced. Credit, 3 semester hours.

356. Modern Fiction

Prerequisite: Six semester hours of 200-level literature.

A study of the short story, short novel, and novel in the twentieth century. As announced. Credit, 3 semester hours.

366. Modern Poetry (see under "British and American Literature")**465, 466. Seminar in Literature (see under "British and American Literature")****EXPOSITORY AND CREATIVE WRITING (CMA)****277. Creative Writing I**

Designed for serious study and practice of various literary forms. As announced. Credit, 3 semester hours.

305. Feature Writing

The writing of articles in-depth for newspapers and magazines. A practical course that ranges widely in terms of possible prose writing experience. Fall. Credit, 3 semester hours.

309. Editorial Writing

The study and analysis of editorial writing in major newspapers with special emphasis on principles and practices. Students will actually write editorials for publication. Spring. Credit, 3 semester hours.

370. Advanced Composition

Prerequisite: "C" grade or better in CMA 105 and 106.

An upper-division writing course for students majoring in the Humanities and the Social and Behavioral Sciences and anticipating graduate level and professional writing demands. Fall. Credit, 3 semester hours.

377. Creative Writing II

Prerequisite: CMA 277.

Designed for serious study and practice of various literary forms beyond the level presented in CMA 277. As announced. Credit, 3 semester hours.

426. Creative Writing Workshop

Prerequisite: CMA 277 or permission of Department Chairman.

This course will normally be taught by visiting writers and may be repeated for credit. Offered when circumstances warrant. Credit, 1-3 semester hours; maximum, 6 semester hours.

JOURNALISM (CMA)

182, 183, 184, 282, 283, 284. Yearbook Production

Experience in the details of producing an extended feature publication through work on the Pembroke State University yearbook, *The Indianhead*. Activities will include theme development, layout design, feature writing, photography selection/cropping, entering/editing copy at the computer, art work, and general production work. Pass/Fail grading. Fall, Spring. Credit, 1 semester hour each.

191, 192, 291, 391, 392, 491, 492. Student Newspaper Production

Experience in producing a student newspaper, *The Pine Needle*. Reporting, news and feature writing, editing, layout, photography, typesetting, circulation, and other activities will be offered. Pass/Fail grading. Fall, Spring. Credit, 1 semester hour each.

240. Newswriting and Reporting I

An introduction to print journalism and emphasis on the development of skills and techniques in effective newswriting. Fall, Spring. Credit, 3 semester hours.

305. Feature Writing (see under "Expository and Creative Writing")**306. News Editing and Typography**

Techniques of preparing copy for publication, the writing of newspaper headlines, and front and inside makeup (design). Fall. Credit, 3 semester hours.

308. Literary Journalism

Prerequisites: CMA 277 or 305 or 370; or permission of instructor.

Study and practice of personal reportage uniting fiction and nonfiction, using the tools of the reporter and the craft of the novelist. Students will study such literary journalists as James Agee, Hunter Thompson, Joan Didion, and Tom Wolfe and will write original articles with a story line and personal voice which give dimension to the facts. As announced. Credit, 3 semester hours.

309. Editorial Writing (see under "Expository and Creative Writing")**340. Newswriting and Reporting II**

Prerequisite: CMA 240 or permission of instructor.

Designed to familiarize the student with the total range of reporting possibilities. Each term a field of specialization will be chosen for emphasis. Also introduces copy-reading and news editing. Fall, Spring. Credit, 3 semester hours.

390. Community Journalism

Prerequisite: CMA 240, 340 or permission of Department Chairman.

A pragmatic course designed to provide the student (in an internship arrangement) with practice in writing and editing for a newspaper, radio station, or television station in the area. Fall, Spring, Summer. Credit, 3 semester hours.

LINGUISTICS AND GRAMMAR (CMA)**346. Aspects of the English Language**

An introduction to the English language including applied study of such topics as the history of the language and its acquisition, dialects, semantics, lexicography, phonology, orthography, grammatical systems, and standards of modern English usage. Fall. Credit, 3 semester hours.

371. English Grammar

A thorough review of traditional grammar, discussions of sentence patterns, transformations, and both old and new diagram forms included. Spring. Credit, 3 semester hours.

381. The English Language in American Society

Prerequisite: CMA 346 recommended.

A study of the historical development of American English in relation to the ethnic and social diversity of American culture; conditions which affect the language today; the dialects and semantics of cultural subgroups; and the impact of these upon mass media and language. As announced. Credit, 3 semester hours.

420. Issues in Contemporary American English

Prerequisite: CMA 346 recommended.

Study of the characteristic features of contemporary American English in print and non-print media; dynamic factors in linguistic change; concerns about the state of American English today. Summer/evening. Credit, 3 semester hours.

422. Seminar on Psycholinguistics (PSY 422)

A study of theories and research on the learning and usage of language. Includes speech preception, child language development, word meanings, deafness, and other related topics. Alternate Falls. Credit, 3 semester hours.

PUBLIC RELATIONS/COMMUNICATION (CMA)**209. Public Relations**

A critical study of public relations as communication effort to influence and persuade in contemporary society. Spring. Credit, 3 semester hours.

214. Photography in Public Relations

Still photography in today's visual society. How photographs enhance public relations materials. How public relations professionals can use photographs in internal and external publications. Still photo techniques. Spring. Credit, 3 semester hours.

324. Print Advertising

Role of public relations and print advertising in multi-media promotional campaigns, based on market research and communications theory. Elements of print advertising. Fall. Credit, 3 semester hours.

350. Organizational Communications

Theories and research dealing with oral communications within organizations and institutions. Emphasis will be placed on practical matters as interview technique, crisis management, employer-employee relations and communications, and organizational communication with the public. The course will also cover professional-client communication, bargaining, and negotiation in an organizational setting. Instruction will be via lecture, discussion, problem-solving, and game-playing in a creative, communicative atmosphere. Fall. Credit, 3 semester hours.

407. Public Relations Media

Prerequisites: CMA 209, 210, 240, 306.

Uses of controlled and uncontrolled media to achieve results. Investigation of Public Relations use of media to include: radio and television; brochures and direct mail; newsletters and magazines; annual reports; and lobbying. Spring. Credit, 3 semester hours.

409. Advanced Public Relations Communication

Prerequisite: CMA 209.

A practical application of the principles of persuasive communication in public relations, with a study of case histories. Emphasis will be given to solving, implementing, and evaluating a strategy of public relations communication. Spring. Credit, 3 semester hours.

411. Internship in Public Relations

Actual work experience with a public relations department or organization. Experience should include analysis of problem, plan for resolution, implementation, and evaluation. A team project under an assigned instructor may be substituted when no internship slots are available. Fall, Spring, Summer. Credit, 3-6 semester hours.

THEATRE (CMA)**162, 163; 262, 263; 362, 363; 462, 463. Play Production**

A laboratory experience in all aspects of both Performance and Technical Theatre. Each student will participate in a minimum of one University Players production either as a performer or a member of the production crew. A minimum number of work hours required. Maximum enrollment, 2 hours per semester. Fall, Spring. Credit, 1 semester hour each.

164. Stage Make-Up

Theory and practice in the application of make-up for the stage using practical make-up application for class exercises. Spring of alternate years. Credit, 1 semester hour.

165. Stage Costumes

Principles and theories of costume design and construction for theatrical productions. Fall of alternate years. Credit, 1 semester hour.

201. Elementary Acting

Theory and practice of the fundamentals of acting, including basic study in analyzing and building a character; introduction of styles of acting. Fall. Credit, 3 semester hours.

233. Stagecraft

Study of theories and techniques used in creating a stage environment. Students will participate in various aspects of production as a practical supplement to classroom lectures. Fall of alternate years. Credit, 3 semester hours.

234. Scene Painting

Development of basic and advanced skills in scenic painting techniques through studio projects. Spring of alternate years. Credit, 1 semester hour.

235. Stage Management

Theory and practice of stage management in Broadway, regional, community, and educational theatres. To include the stage manager's responsibilities during rehearsals as well as during performances. Spring of alternate years. Credit, 1 semester hour.

250. Introduction to Theatre

Introduction to both the practice and literature of the theatre; survey of artists of the theatre and dramatic literature from Greece to the present. Fall, Spring, Summer. Credit, 3 semester hours.

301. Advanced Acting I

Prerequisite: CMA 201.

Advanced work in theory and practice of acting; advanced work in analyzing and building a character; style of acting. Spring. Credit, 3 semester hours.

304. Creative Drama

Prerequisite: CMA 201 recommended.

Principles and practices of organizing and directing creative drama and children's theatre activities in the classroom and in the community. Fall of alternate years. Credit, 3 semester hours.

315. Voice and Diction

Fundamentals of voice production and articulation. A detailed study of the International Phonetic Alphabet will provide a means of refining and expanding communication skills. Spring. Credit, 3 semester hours.

322, 323. Special Topics in Theatre

An in-depth study of a selected topic in theatre or drama determined by the expertise of the instructor and the interests of the students. As announced. Credit, 3 semester hours each.

331. Play Direction

Prerequisite: CMA 201 or consent of instructor.

Study of the theory and practice of directing for the theatre; classroom theory supported by individual experience in selection and analysis of scripts, casting, rehearsal, and production. Fall of alternate years. Credit, 3 semester hours.

333. Lighting

Prerequisite: CMA 233 recommended

Theories and principles of lighting design for theatrical productions. Conceptualization, communication, and execution of design ideas through script analysis, light studies, light plots, and related projects. Spring of alternate years. Credit, 3 semester hours.

334. Scene Design

Prerequisite: CMA 233 recommended

Theory and principles of scene design for the stage. Conceptualization and communication of design ideas through renderings, models, and technical drawings. Fall of alternate years. Credit, 3 semester hours.

353. Theatre Management

Theory and practice of theatre management objectives including: theatre organization, season, budget, schedule, personnel, publicity, box office, and house management. Spring of alternate years. Credit, 3 semester hours.

360. History of the Theatre: The Beginning to 1642

Prerequisite: CMA 250 or consent of instructor.

Study of the theatre, both its physical form and literature from the beginnings to 1642. Fall of alternate years. Credit, 3 semester hours.

361. History of the Theatre: 1642 to the Present

Prerequisite: CMA 250 or consent of instructor.

Study of the theatre, both its physical form and literature from 1642 to the present. Spring of alternate years. Credit, 3 semester hours.

401. Advanced Acting II

Prerequisite: CMA 301.

Advanced work in theory and practice of acting; preparation of audition repertoire; emphasis on styles of acting. Spring. Credit, 3 semester hours.

EED 402. Methods of Teaching Dramatic Literature and Performance (see below, ENGLISH EDUCATION)**453. Directed Practicum in Advanced Theatre Problems I**

Prerequisite: Declared senior major, 3.0 grade point average in major and consent of instructor.

Credit is obtained by successful fulfillment of a contractual agreement between the student and a supervising faculty member. Fall, Spring, Summer. Credit, 1-3 semester hours.

454. Directed Practicum in Advanced Theatre Problems II

Prerequisite: Declared senior major, 3.0 grade point average in major and consent of instructor.

Credit is obtained by successful fulfillment of a contractual agreement between the student and a supervising faculty member. Fall, Spring, Summer. Credit, 1-3 semester hours.

SEMINARS (CMA)**450. Seminar in American Indian Literature (see under "British and American Literature")****455. Directed Studies Seminar**

Required of all contracted majors, recommended to all CMA majors.

Prerequisite: Upper-division major.

This course teaches advanced research techniques and gives the student guidance in a program designed by the student and his or her research director. The course culminates the student's major with an independent, substantive project. Spring. Credit, 3 semester hours.

465, 466. Seminar in Literature (see under "British and American Literature")**II. ENGLISH EDUCATION (EED)**

For a description of English Education programs, see above or consult the Coordinator for Undergraduate English Education.

376. The Teaching of Writing and Speech (K-6)

A study of the two essential disciplines of the Language Arts (grammar and composition, both oral and written) and a review of materials and techniques for teaching both oral and written composition in elementary school classrooms. Spring. Credit, 3 semester hours.

379. The Teaching of Writing and Speech (6-9, 9-12)

A study of the two essential disciplines of the Language Arts (grammar and composition, both oral and written) and a review of materials and techniques for teaching both oral and written composition in junior high and high school classrooms. Fall. Credit, 3 semester hours.

382. Children's Literature (K-6)

A study of the leading genres in literature for students within the elementary level, K-6, with emphasis upon specific books, authors, illustrators, awards, and curriculum-correlations; materials and a drama practicum included. Fall, Spring. Credit, 3 semester hours.

383. Children's Literature (6-9)

A study of the leading genres in literature for students within the middle grades (6-9) with emphasis upon specific books, authors, illustrators, awards, and curriculum-correlations; materials and a drama practicum included. Fall, Spring. Credit, 3 semester hours.

384. Literature for Young Adults (9-12)

A survey of literature for adolescents, emphasizing the development of standards for selecting such materials for school and home, with attention given to the methods of teaching this literature. Spring. Credit, 3 semester hours.

399. Practicum in Composition Tutoring

Prerequisite: CMA 370 or 371 or 376 or 379 or current enrollment in one of these. A supervised tutoring of composition students from the CMA department or from area schools. Pass/Fail grading. Each semester. Credit, 1-2 semester hours. Maximum: 4 semester hours.

400. Methods of Teaching English in the Secondary School (EDN 400)

Purposes, methods, materials and evaluation procedures in the certification area: directed observation in the secondary school; preparation of teaching plans and materials; accelerated. Fall, Spring. Credit, 3 semester hours.

402. Methods of Teaching Dramatic Literature and Performance

Prerequisite: CMA 304 recommended

Purposes, methods, materials and evaluation procedures in the area; directed observation in the secondary school; preparation of teaching plans and materials. Fall. Credit, 3 semester hours.

III. FOREIGN LANGUAGES (FRH, GER, SPN)

A student presenting two or more units in a high school language course and wishing to continue the study of that language should, after having satisfactorily passed a review of proficiency in the language, register in the course for which the student is qualified.

FRENCH (FRH)**131, 132. Elementary French I, II**

The sequence of 131-132 introduces French grammar and vocabulary and some aspects of French culture. Aural comprehension, speaking, reading, and writing are stressed in that order. Fall, Spring. Credit, 3 semester hours.

231, 232. Intermediate French I, II

Prerequisites: FRH 131, 132 or two units of high school French.

Grammar review, translation and composition; oral practice through drill and discussion. An introduction to French civilization and literature. Fall, Spring. Credit, 3 semester hours.

255, 256. French Conversation and Composition

Intensive practice in aural-oral French, based on French literature and civilization subject matter; further study of grammar, vocabulary, and idiom; further training in formal and free composition. Fall (256), Spring (255). Credit, 3 semester hours.

321, 322. Study of French Literature

Prerequisites: FRH 231, 232 or permission of instructor.

Masterpieces of French literature from the beginning to the present as an outgrowth of French history and civilization. (Fall (321), Spring (322). Credit, 3 semester hours.

361. French Civilization and Culture

Prerequisite: FRH 231 or its equivalent.

A course designed to give students a better understanding of the history and civilization of France and other French-speaking countries and to increase their knowledge of the general French culture. As announced. Credit, 3 semester hours.

451. Study Abroad: Study Tour in France

Prerequisite: Permission of instructor.

A trip designed to acquaint students with various aspects of French life and Civilization through visits to places of historical and cultural interest. As announced. Credit, 2-7 semester hours.

GERMAN (GER)**131, 132. Elementary German I, II**

The sequence of 131-132 introduces German grammar and vocabulary and aspects of German culture. Aural comprehension, speaking, and writing are stressed in that order. Fall, Spring. Credit, 3 semester hours each.

231, 232. Intermediate German I, II

Prerequisite: Ger 131, 132 or 2 units of high school German.

Grammar review, translation and composition; oral practice through drill and discussion. An introduction to German civilization. Fall, Spring. Credit, 3 semester hours each.

SPANISH (SPN)**131, 132. Elementary Spanish I, II**

The sequence 131-132 introduces Spanish grammar and vocabulary and some aspects of Spanish culture. Aural comprehension, speaking, reading, and writing are stressed in that order. Fall, Spring. Credit, 3 semester hours.

231, 232. Intermediate Spanish I, II

Prerequisites: SPN 131, 132, or two units of high school Spanish.

The sequence 231-232 develops increased competence in aural comprehension, speaking, reading, and writing and reviews Spanish grammar. Fall, Spring. Credit, 3 semester hours.

EDUCATION

Chairman: DONALD R. LITTLE

PAUL J. BERGHOFF

RHODA P. COLLINS²

BEN JAY DRYMON

CARL M. FISHER

ZOE WOODELL LOCKLEAR¹

WILLIE MCNEILL, JR.

GERALD D. MAYNOR

WALTZ MAYNOR

SUSAN E. PRUGH

NANCY M. SAMPSON

LAWRENCE R. SCHULTZ³

SHARON L. SHARP

KATHRYN M. SULLIVAN*

DANA WASHINGTON

JUDITH L. WISH

*Director of Teacher Education

¹Director of Teacher Education Field Experiences

²Middle Grades Education Coordinator

³Special Education Coordinator

The primary function of the Department of Education is to provide professional preparation for individuals who are preparing to teach in the public schools. The total program of professional education is designed to encompass an understanding of the learner, of the learning process, of the school, and of the meanings and purposes of education, and to foster the development of professional skills in methods and techniques of instruction. The Department of Education utilizes the resources of the entire University for the academic subject matter necessary for breadth and depth of background in the liberal arts and in the sciences, both of which are essential to effective teaching. The professional program is designed to meet the criteria for teacher certification as set forth by the North Carolina Department of Public Instruction, the criteria for accreditation by the National Council for the Accreditation of Teacher Education (NCATE), and the criteria implied in the philosophy of the University.

Students have the responsibility for consulting with their major advisor and the Education Department in order to keep abreast of all regulations and information concerning their academic record for graduation and/or certification. All prospective teachers should study the requirements of the state in which they plan to teach, as well as the requirements of the University, keeping in mind that graduation and certification programs are not necessarily the same even though it is possible to achieve both in a planned program.

SPECIAL REQUIREMENTS FOR TEACHER EDUCATION MAJORS (ACADEMIC CONCENTRATIONS)

As required by the Board of Governors of the University of North Carolina, all freshmen entering in the Fall of 1989 and thereafter seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business

Education, or Physical Education must complete a concentration in a basic academic discipline as part of their degree requirements. The 24-27 hours comprising these academic concentrations have been selected to provide students with a cohesive study of a basic academic discipline. A list of courses required for each academic concentration appears in this catalog under each appropriate department. Available academic concentrations include the following:

American Indian Studies	Mathematics
Art	Music
Biology	Philosophy/Religion
Communicative Arts	Physics
Geography	Political Science
Geology	Psychology
History	Sociology

ADMISSION TO THE TEACHER EDUCATION PROGRAM

The Teacher Education Committee selectively admits and periodically evaluates students in the Teacher Education Program on the basis of scholastic aptitude and suitability for teaching. NOTE: Admission into the University as a student does not automatically satisfy eligibility requirements for admission to Teacher Education Programs. Eligibility for admission into Teacher Education Programs will be determined by regulations current at the time initial application is made for admission into the program.

INITIAL ADMISSION TO THE PROGRAM

To be eligible for admission to the Teacher Education Program an individual must:

1. Have not more than nine hours of Basic Studies requirements remaining.
2. Have earned a "C" (2.0) or better in Education 227 and Education 202.
3. Have an overall cumulative quality point average of 2.5 or better on a 4.0 scale.
4. Satisfactorily complete Core Battery I and Core Battery II of the National Teacher Examination. Scores must be sent to Pembroke State University by the Educational Testing Service.
5. Have the endorsement/recommendation of his/her advisor, Department Chairman, Foundations of Education instructor, and the Office of Student Affairs.

A student having a handicap which might adversely affect the student's ability to attain minimal competency in the teaching profession should arrange with the Office of Teacher Education for any needed accommodation.

Students should apply for admission to the Teacher Education Program during the second semester of the sophomore year or first semester of the junior year. Applications are available in the Office of Teacher Education. NOTE: Students will not be allowed to enroll in more than two 300 or 400 level professional education courses until they have been formally admitted to the Teacher Education Program.

Each student who applies for admission to the Teacher Education Program will be given written notification by the Chairman of the Teacher Education Committee of the approval or disapproval of the student's application by the Teacher Education Committee. A student is not considered admitted to the Teacher Education Program until such notification is made.

CONTINUATION IN THE PROGRAM

When the student's application for admission to the Professional Semester of the Teacher Education Program is disapproved or when the student earns a course grade of "D" or "F" in one of the required courses in his or her major or the professional education sequence, the student is automatically dropped from the Teacher Education Program and may not continue as a Teacher Education major until he or she reapplies for admission to the Program. A student seeking readmission to the Program must obtain approval of the following and then make application for admission to the Teacher Education Committee.

1. The student must obtain the approval and recommendation of the student's advisor.
2. The student must obtain the approval and recommendation of the appropriate Program area coordinating team.
3. The student must obtain the approval and recommendation of the Chairman of the Teacher Education Committee.
4. The student must apply to the Teacher Education Committee for readmission and be approved by them for readmission to the Program.

Upon being readmitted to the Program, the student must retake the required major or professional education course in which the "D" or "F" was earned and earn a minimum course grade of "C" (2.0) or better. The course may be repeated one time only.

ADMISSION TO THE PROFESSIONAL SEMESTER

The Professional Semester occurs in the senior year and is devoted entirely to study in professional education and to student teaching. No student accepted for enrollment in the Professional Semester is permitted to register for any course other than those specified as professional education courses as part of the Professional Semester.

The application for enrollment in the Professional Semester must be filed with the Director of Teacher Education Field Experiences not later than three months prior to enrolling in the Professional Semester.

To be eligible for consideration by the Teacher Education Committee and approved for enrollment in the Professional Semester, each candidate for a teaching certification must:

1. Have completed all required Basic Studies courses.
2. Not lack more than six semester hours of completing the requirements in the major field of study.

3. Have a quality point average of 2.5 or better overall AND also in the student's major field of study.
4. Present a certificate of eligibility verified by the Registrar.
5. Present a final recommendation as to character, suitability, and aptitude for teaching from the student's advisor and major department head.
6. Have satisfactorily completed all professional education requirements, excluding those in the Professional Semester, prior to admission to the Professional Semester.
7. Submit a statement of physical fitness from a licensed physician.

Accommodations to handicaps which might adversely affect the student teaching experience should be arranged with the Director of Teacher Education Field Experiences.

Each student who applies for admission to the Professional Semester will be given written notification by the Director of Teacher Education Field Experiences of the approval or disapproval of the student's application by the Teacher Education Committee. A student is not considered officially admitted to the Professional Semester until such notification is made AND all University registration procedures are completed.

TEACHER CERTIFICATION

The North Carolina State Department of Public Instruction issues initial probationary Class A Teacher Certification to graduates of Pembroke State University's approved undergraduate programs. This includes specified courses in their teaching field(s), prescribed courses in education, and recommendations for certification by the appropriate department head and the Director of Teacher Education.

CERTIFICATION-ONLY

Those students who already possess a baccalaureate degree may enroll to earn teacher certification. In addition to applying to the University through the Admissions Office such students must complete a Request for an Individualized Education Program available from the Office of Teacher Education. A copy of all previous college/university course work must accompany the request. Based upon review of the transcript by the Director of Teacher Education and the appropriate department chair and/or program coordinator, an individualized program of study, leading to a recommendation for certification by Pembroke State University, is prepared. Students returning for certification-only must meet the same Teacher Education Program admission and continuation regulations as degree-seeking students. In addition, those whose previous cumulative grade point average is below a 2.5 on a 4.0 scale must maintain at least a 2.7 g.p.a. each semester they are working toward certification and earn at least a 2.7 g.p.a. in major and professional education courses. Additional information is available from the Office of Teacher Education.

CPC

All individuals who have been formally admitted to any of the undergraduate or graduate programs leading to certification must compete a Candidate for Professional Certification (CPC) form once each academic year that they are enrolled at the university. CPC forms are available in the Office of Teacher Education.

THE NATIONAL TEACHER EXAMINATIONS

All persons qualifying for a teaching certificate in North Carolina must take appropriate sections of the National Teacher Examinations.

The student seeking admission to the Teacher Education Program completes the Core Battery I and II tests of the National Teacher Examinations in accordance with criteria approved and published by the Teacher Education Committee at the time the student makes initial application for admission to the program. These tests will normally be taken at the time Basic Studies requirements are completed, usually by the second semester of the sophomore year or the first semester of the junior year. A copy of the scores on these tests must be received by the Office of Teacher Education before the student may complete the application for admission to the Teacher Education Program.

The prospective teacher takes the Core Battery III and appropriate teaching area sections of the National Teacher Examinations in accordance with criteria approved and published by the Teacher Education Committee prior to completion of the program. These tests will normally be taken during the semester in which student teaching occurs.

Students should have their scores sent directly to Pembroke State University by the Educational Testing Service. Sealed copies are not accepted.

Applications and information on the tests are available from the Director of Teacher Education.

THE CURRICULUM LABORATORY

The Curriculum Laboratory or materials center is a unit within the Department of Education and is an essential part of the teacher education facility which contains professional and instructional materials and which provides support to all areas of the teacher education program. The Laboratory has, for example, textbooks used in elementary and secondary school, teaching units, courses for study, instructional media and equipment, curriculum outlines, and supplies and materials for the production and preparation of teaching materials.

THE LEARNING LABORATORY

The Learning Lab is a unit within the Department of Education. The lab, which is utilized by professors and education majors, provides space for the study and development of instructional materials—commercial and teachermade. In addition to a wide

collection of manipulative and multi-sensory materials, the Learning Lab also houses furniture and other physical equipment appropriate for creating flexible educational environments.

TEST REVIEW/RESOURCE CENTER

The Test Review/Resource Center, located in Room 101B of the Education Center, houses a variety of materials designed to assist students preparing to take the National Teacher Examinations. All education majors are encouraged to utilize the resources available in this Center.

SECONDARY EDUCATION

Curriculum checksheets, available from advisors and chairmen of the academic departments, outline specialized programs of study for majors who are preparing to teach at the secondary level.

Secondary school teaching certificates are obtained in conjunction with the degree of Bachelor of Arts or Bachelor of Science, with a major in a teaching field or subject. The Department of Education does not offer a degree in secondary education. The requirements for the secondary teaching certificate are as follows:

- I. Basic Studies Requirements. Students seeking secondary school certification must have six semester hours of history and six semester hours of literature. They should consult with the chairman of their major department prior to registering for basic studies courses.
- II. Professional requirements for secondary teaching certificates: 25 semester hours consisting of Education 202, 227, 308, 400, 437, 445, and 448.

ELEMENTARY EDUCATION

The Department of Education currently offers programs leading to the Bachelor of Science degree in Elementary Education with majors in Early Childhood Education (K-4) and Intermediate Grades Education (4-6). (Students who entered the University after fall 1989 may be certified K-6.) A Bachelor of Science degree in Middle Grades Education (6-9) is also offered. Curriculum checksheets outlining course recommendations for meeting the program of study requirements for each major are available from departmental advisors and the office of the Chairman of the Department of Education. All students desiring teacher certification should meet with a teacher education advisor as early in the program as possible.

Requirements for a Bachelor of Science Degree in Elementary Education (K-6)**Early Childhood Education (K-4) +**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	47
ART 108, 205; EDN 101, 410, 421, 453, 455, 463, 465; HED 310; BIO 100L; PHS 108; PED 316; MUS 224, 230; EED 382; HST 317	
Professional Education Requirements	25
EDN 202, 227, 301, 306, 435, 442, 446, 477	
Electives	5
Total	128

*Students who plan a major and desire teacher certification in Elementary Education should consult with the Department Chairman prior to registering for Basic Studies Courses.

+ A new program is being designed for students who enter the university after fall 1989. The North Carolina Department of Public Instruction has restructured the K-4 and 4-6 certification areas to K-6 effective July 1989. See also p. 194 on the new Academic Concentration requirement. Information is available in the Education Department.

Requirements for a Bachelor of Science Degree in Elementary Education**Intermediate Grades Education (4-6) +**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	47
BIO 100-L; EDN 101; MAT 201; PHS 108; ART 108; HED 310; EED 383; EED 376; EDN 413; EDN 453; EDN 421; HST 101/102; MUS 299; EDN 463; EDN 455; PED 316; HST 317	
Professional Educational Requirements	25
EDN 202, 227, 304, 307, 436, 443, 447, 475	
Electives	5
Total	128

*Students who plan a major and desire teacher certification in Elementary Education should consult with the Department Chairman prior to registering for Basic Studies Courses.

+ A new program is being designed for students who entered the University after fall 1989. The North Carolina Department of Public Instruction has restructured the K-4 and 4-6 certification areas to K-6 effective July 1989. See also p. 194 on the new Academic Concentration requirement. Information is available from the Education Department.

Requirements for a Bachelor of Science Degree in Middle Grades Education

Middle Grades Education (6-9)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	52
EDN 300, 419; CSC 405; HST 101/102; PHS 108;	
BIO 100L and two academic areas of concentration**	
Professional Educational Requirements	25
EDN 202, 227, 305, 309, 432, 440, 456, 476	
	<hr/>
Total	128

*Students who plan a major and desire teacher certification in Middle Grades Education should consult with the Department Chairman prior to registering for Basic Studies Courses.

Students who entered the University after Fall 1989 and seek Middle Grades Certification are required to complete **one Academic Concentration and **one** teaching concentration (certification area), which may be in the same field. Specific requirements are available from the Middle Grades Coordinator and from appropriate academic departments. For a list of Academic Information see p. 195. Certification is available in Health and Physical Education, Language Arts (Department of Communicative Arts), Mathematics, Science (see Science Education Program), Social Studies (Department of History), and Special Education (may be used only as a second concentration). Information on the requirements for these concentrations is contained under the appropriate department description in this catalog.

SPECIAL EDUCATION

The Department of Education offers a program leading to the Bachelor of Science degree in Special Education with recommendation for North Carolina Certification. Curriculum checksheets are available from departmental advisors and the office of the Chairman of the Department of Education. Students must meet the criteria stated in the Pembroke State University general catalog for admission to the Teacher Education Program. See also p. 194 on the new academic concentration requirement.

Requirements for a Bachelor of Science Degree in Special Education

Learning Disabilities Track

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	51-52
Academic Concentration**	19-22
Major Requirements	30
SED 100, 200, 310, 340, 401, 440, 490;	
EDN 410, 425, 472	
Professional Education Requirements	25
EDN 202, 227, 306 or 307 or 308, 439, 444;	
SED 302, 449, 471	
Electives	0-3
	<hr/>
Total	128

Mental Retardation Track

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	51-52
Academic Concentration**	19-22
Major Requirements	30
SED 100, 200, 310, 320 or 330 or 340, 400, 490; EDN 410, 425, 472; HED 418	
Professional Education Requirements	25
EDN 202, 227, 306 or 307 or 308, 439, 444; SED 301, 449, 470	
Electives	0-3
Total	128

*Students who plan a major in Special Education should consult with the Department Chairman prior to registering for Basic Studies courses.

**The Special Education program recommends Psychology. Please see the program coordinator if you are considering another concentration.

Requirements for a Specialty area in Special Education for the B.S. in Middle Grades Education (6-9)*

	Sem. Hrs.
SED 100 and SED 200	6
SED 310 or SED 340	3
Three courses from: SED 301, SED 302, SED 400, SED 401, SED 440, SED 470, SED 471, SED 490, EDN 425, EDN, 472	9

*This does **not** certify one to teach exceptional children. See Special Education advisors for certification requirements.

This program can be used only as a supplement to the main Middle Grades certification area.

COURSES

EDUCATION (EDN)

101. College Reading

This course is designed to foster effective and efficient reading. Vocabulary, comprehension, and strategies for reading college texts are addressed. Open to all students. Fall, Spring, 3 semester hours.

102. Language Skills in Teaching Reading

A study designed for helping prospective elementary teachers improve their power in the use of language skills in the teaching of reading. Fall, Spring, Summer. Credit, 3 semester hours.

202. Educational Psychology

Prerequisite: EDN 227.

Theoretical and empirical findings of psychology related to the teaching-learning process in the classroom. Fall, Spring, Summer. Credit, 3 semester hours.

227. Foundations of Education I

Philosophical, historical, and sociological foundations of education, including analysis of contemporary issues and problems. It is the beginning screening course for those seeking teacher certification. Fall, Spring, Summer. Credit, 3 semester hours.

300. Internship and Seminar in Teaching Middle Grades

Prerequisites: EDN 202, 227, 305, and 309.

This course is designed to provide students with a junior level practicum experience in the middle grades. Four or more contact hours per week will be required in middle grades in at least two different content area and on two different levels, 6-7 and 8-9. Weekly seminars will be conducted by the university supervisor. Fall, Spring. Credit, 3 semester hours.

301. Early Childhood Curriculum

Prerequisite: EDN 202.

A study of curriculum emphasizing the interrelationships between content, method, and child development. Required of all early childhood majors. (Must be taken prior to student teaching.) Fall, Spring. Credit, 3 semester hours.

304. Intermediate Grades Curriculum

A study of curriculum as content and method, including innovative instructional media pertaining to the intermediate grades. (Must be taken prior to student teaching.) Fall, Spring, Summer. Credit, 3 semester hours.

305. Middle Grades Curriculum

Prerequisite: EDN 202.

A study of middle grades curriculum as content and methods, including innovative instructional strategies in the student's chosen areas of concentration. A team teaching approach will be utilized. Fall, Spring. Credit, 3 semester hours.

306. Psychology of Early Childhood

Empirical findings and theories concerning early childhood growth and development and their relevance to early childhood education .Fall, Spring, Summer. Credit, 3 semester hours.

307. Human Growth and Development (4-6)

Growth and development from conception to adulthood with focus on pre-adolescence (ages 9-12) for intermediate grades majors. Fall. Credit, 3 semester hours.

308. Psychology of Adolescence

Empirical findings and theories of adolescence relevant to the behavior and learning of adolescents. Fall, Spring, Summer. Credit, 3 semester hours.

309. Human Growth & Development (Middle Grades)

Prerequisite: EDN 227 and EDN 202.

This course covers growth and development of the middle grades student (ages 12-15). Implications for teaching the early adolescent will be the major focus. Fall, Spring. Credit, 3 semester hours.

400. Methods of Teaching in the Secondary School (BED 400, EED 400, MAT 400, SCE 400, SSE 400)

Purposes, methods, materials, and evaluation procedures in the subject or area indicated; directed observation in the public schools; preparation of teaching plans and materials: (a) social studies, (b) mathematics, (c) science, (d) English, (e) business education. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

410. Teaching Reading-Early Childhood

A study of teaching as a growth process and as a developmental task; to include the current trends, materials, approaches, and diagnostic procedures for meeting individual needs in early childhood education. (Must be taken during Junior or Senior year and prior to student teaching.) Fall, Spring, Summer. Credit, 3 semester hours.

413. Teaching Reading-Intermediate Grades

A study of current trends, materials, practices, and diagnostic procedures for the teaching of reading in intermediate grades. (Must be taken during Junior or Senior year and prior to student teaching.) Fall, Spring, Summer. Credit, 3 semester hours.

418. Measurement and Evaluation in Public Schools

A study of current educational measurement. Includes the use and construction of stand-ardized mental and achievement tests, and of informal, teacher-made tests. Fall or Spring. Credit, 3 semester hours.

419. Teaching Content Area Reading

Methods and materials for teaching the basic reading skills and the specific reading skills required to read in the content areas. Required of all middle grades and secondary level certificate candidates. Fall, Spring. Credit, 3 semester hours.

420. Workshop in the Teaching of Reading

Prerequisite: EDN 413 or its equivalent.

A study of current reading problems, materials, methods, and instructional media designed to give the classroom teacher practical experience in the teaching of reading. Summer. Credit, 3 semester hours.

421. Language Arts in the Elementary School (K-6)

A study of the interrelatedness of the language arts - (listening, speaking, reading/literature, mechanics, and creative writing) methods. Required of all elementary education majors (K-6) Spring. Credit, 3 semester hours.

423. Research in Elementary Education

An introduction to research, designed to allow student investigation and report of a problem in elementary education with the approval and guidance of the instructor. Fall, Spring, Summer Credit, 1-6 semester hours.

424. Modern Trends in the Teaching of Reading

Prerequisite: EDN 410 or EDN 413 or EDN 419.

Designing reading programs at all levels based on a comprehensive study of current research in the area of reading instruction. Summer. Credit, 3 semester hours.

425. Classroom Diagnosis of Reading Difficulties

Prerequisite: EDN 410 or EDN 413 or EDN 419.

Methods and materials used in the diagnosis and remediation of reading difficulties. Fall, Spring, Summer. Credit, 3 semester hours.

426A, 426B. Workshops in Early Childhood Education

To provide teachers and advanced students practical training and experience in aspects of early childhood education. 426-A presents academic learning with emphasis on individualization of instruction. 426-B deals with creative and artistic activities. Alternate Summers. Credit, 3 semester hours.

432. Mainstreaming the Exceptional Student (Middle Grades)

Prerequisite: EDN 227, EDN 202.

A study of the special-needs student in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

433. Research in Secondary Education

An introduction to research designed to allow student investigation and report of a problem in secondary education with the approval and guidance of the instructor. Fall, Spring, Summer. Credit, 1-6 semester hours.

434. Problems in Contemporary Education

Designed for individual study of trends, practices, and instructional materials related to current problems in education. Fall, Spring, Summer. Credit, 1-3 semester hours.

435. Mainstreaming the Exceptional Student (Early Childhood)

Prerequisite: EDN 227, EDN 202.

A study of the special-needs students in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

436. Mainstreaming the Exceptional Student (Intermediate Grades)

Prerequisite: EDN 227, EDN 202.

A study of the special-needs student in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

437. Mainstreaming the Exceptional Student (Secondary)

Prerequisite: EDN 227, EDN 202.

A study of the special-needs student in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

438. Mainstreaming the Exceptional Student (Reading)

Prerequisite: EDN 227, EDN 202.

A study of the special-needs student in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

439. Mainstreaming the Exceptional Student (Special Education)

Prerequisite: EDN 227, EDN 202.

A study of the special-needs student in the regular classroom. This course is designed to provide future educators with knowledge about, and necessary competencies to work with exceptional children and youth. Fall, Spring. Credit, 1 semester hour.

440. Foundations of Education II (Middle Grades)

Prerequisite: Admission to the professional education semester.

This course provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the middle grades teacher in the classroom, the school, the school system, and education. Fall, Spring. Credit, 3 semester hours.

441. Foundations of Education II (Reading)

Prerequisite: Admission to the professional education semester.

Provides an understanding of the purposes, organization, and administration of reading programs in schools. Consideration is given to the role of the reading teacher in working with students as a reading resource teacher in schools. Fall, Spring. Credit, 3 semester hours.

442. Foundations of Education II (Early Childhood)

Prerequisite: Admission to the professional education semester.

This course provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the early childhood teacher in the classroom, the school, the school system, and education. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

443. Foundations of Education II (Intermediate Grades)

Prerequisite: Admission to the professional education semester.

This course provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the intermediate teacher in the classroom, the school, the school system, and education. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

444. Foundations of Education II (Special Education)

Prerequisite: Admission to the professional education semester.

Provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the teacher in the special education classroom, the school, the school system, and education. Fall, Spring, Summer. Credit, 3 semester hours.

445. Foundations of Education II (Secondary)

Prerequisite: Admission to the professional education semester.

This course provides an understanding of the purpose, organization, and administration of schools, with special emphasis on the role of the secondary teacher in the classroom, the school system, and education. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

446. Student Teaching in the Elementary School (Early Childhood)

Provides continuous full-time student teaching experiences in an off-campus school at the early childhood level. (See pages 196-97 for eligibility criteria.) Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

447. Student Teaching in the Elementary School (Intermediate Grades)

Provides continuous full-time student teaching experiences in an off-campus school at the intermediate level. (See pages 196-97 for eligibility criteria.) Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

448. Student Teaching in the Secondary School

Provides continuous full-time student teaching experiences in an off-campus public school in the subject area for which the candidate is preparing to teach. (See pages 196-97 for eligibility criteria.) Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

450. Student Teaching in Reading Education

Provides continuous full-time student teaching experiences in an off-campus school in the teaching of reading. (See pages 196-97 for eligibility criteria.) Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

453. Teaching Social Studies in the Elementary School

Prerequisite: Basic studies requirements in history.

Designed to provide the prospective and/or in-service teacher with the opportunity to gain proficiency in analyzing social studies content and evaluating materials, trends and issues in the elementary school Fall. Credit, 3 semester hours.

455. Teaching Science in the Elementary School

Prerequisite: Basic studies requirements in science.

Designed to assist prospective and/or in-service teachers in developing competencies for teaching elementary school sciences. Special emphasis will be placed on (1) designing a science curriculum which focuses on the interrelationship that exists among the science content areas, and (2) developing a process-oriented science program based on the developmental needs of the elementary school child. Spring. Credit, 3 semester hours.

456. Student Teaching in the Middle Grades

Provides continuous full-time student teaching experiences in an off-campus school at the middle grades level. Fall, Spring. Credit, 6 semester hours.

463. Teaching of Mathematics in the Elementary School

Prerequisite: Basic studies requirement in mathematics.

Designed to assist prospective and/or in-service teachers in developing competencies for teaching mathematics content and processes in the elementary school. Concrete materials will be used in developing mathematical concepts. Spring, Summer. Credit, 3 semester hours.

465. Educational Trends and Practice in Pre-School Education

A study of educational trends and emerging patterns of contemporary education for the pre-school child. Emphasis placed on the roles and responsibilities of administrators, teachers, parents, volunteers and local agencies in the operation of preschool programs. Spring, Summer. Credit, 3 semester hours.

467. Practicum: Pre-School Education

Provides majors and/or non-majors an opportunity to attain experience with very young children in a group setting. Practicum will provide supervised experience in a high quality infant care, day care, nursery school or other approved pre-school setting. Fall, Spring. Credit, 3 semester hours.

472. Diagnostic and Remedial Mathematics Methods

Students will learn techniques for diagnosis and remediation of mathematical skill problems of children in grades K through 9. Students will also demonstrate competency in using resources and research related to mathematics (in education.) As announced. Credit, 3 semester hours.

475. Techniques, Materials and Resources in Intermediate Grades Education

This course stresses the use of specialized materials and resources included in the several content areas of the intermediate grades. Accelerated. Fall, Spring, Summer. Credit, 3 semester hours.

476. Strategies and Resources in Teaching Middle Grades

Prerequisite: Admission to the Professional Education Semester.

Stresses the use of innovative teaching strategies and specialized materials and resources in the middle grades, including interdisciplinary team teaching. Faculty representing concentration areas in the middle grades will serve as resource persons. Fall, Spring. Credit, 3 semester hours.

477. Resources for Education Young Children

Introduces early childhood majors to strategies for utilizing human and physical resources for the education of young children. Emphasis will be placed on: (1) early and continuous involvement of parents or caregiver agencies serving children and families, as well as on community and school support personnel. (2) selection and evaluation of environments, equipment, and materials; and (3) the utilization of state and community resources. Fall, Spring. Credit, 3 semester hours.

478. Techniques, Materials and Resources in Reading Education

Prerequisite: Admission to the professional education semester.

This course stresses the use of specialized materials, equipment, and resources included in the teaching of reading in developmental and remedial school situations. Fall, Spring. Credit, 3 semester hours.

479. Practicum in Corrective Reading

Required for: Middle grades education (6-9) majors seeking a concentration in reading.
Prerequisites: EDN 419, 421, 425.

Provides the student an opportunity to engage in the diagnosis and remediation of reading disability cases within a variety of situations under supervised conditions. Required for area of concentration in reading for the middle grades major. Fall, Spring. Credit, 3 semester hours.

484. Tests and Measurement in Reading

Prerequisite: EDN 410 or EDN 413 or EDN 419.

A consideration of the nature and function of measurement in reading education, teacher-made and standardized tests and scales. Introduction to statistical concepts of measurement in reading education. Fall, Spring, Summer. Credit, 3 semester hours.

485. Practicum in Reading Education: Diagnosis

Prerequisites: EDN 410 or EDN 413 or EDN 419, and EDN 425 (or must be taken concurrently with EDN 425.)

Students engage in the actual diagnosis of children with reading disabilities under supervised laboratory conditions. Fall, Spring. Credit, 3 semester hours.

486. Practicum in Reading Education: Remediation

Prerequisite: EDN 485.

Under supervised laboratory conditions, students provide corrective and remedial reading instruction to children diagnosed as having reading disabilities. Fall, Spring. Credit, 3 semester hours.

487. Assisting the Classroom Teacher with Reading Instruction

Prerequisites: EDN 410 or 413 or 419.

This course is designed to provide a background which will enable the special reading teacher to assist the classroom teacher with developmental and corrective reading classes. Emphasis will also be placed on effective consulting techniques. Fall, Spring. Credit, 3 semester hours.

SPECIAL EDUCATION (SED)

100. Practicum Emotionally Handicapped; Academically Gifted; Learning Disabled Mentally Handicapped

An introductory course combining theory and firsthand educative experience with emotionally handicapped, academically gifted, learning disabled, and mentally handicapped (educable, trainable, and severely handicapped) children. Fall or Spring. Credit, 3 semester hours.

200. Introduction to Exceptional Children

Introduction to the principles, problems, characteristics, and psychological aspects of children who are classified exceptional. Includes the study of children who have mental handicaps; learning disabilities; visual impairments; hearing handicaps; communication disorders; behavior disorders; multiple, severe, and physical disorders; as well as talents and gifts. Fall or Spring. Credit, 3 semester hours.

280. Manual Communications I (Sign Language)

Students will learn to finger spell, to use manual communications, and to describe categories of hearing loss. As announced. Credit, 1 semester hour.

281. Manual Communications II (Sign Language)

Prerequisite: SED 280.

Students will develop a large vocabulary and greater facility with manual communications. As announced. Credit, 1 semester hour.

282. Manual Communications III (Sign Language)

Prerequisite: SED 281.

The student will continue to develop vocabulary and fluency. Video taping and other means of feedback will be used to enhance the skills of fluency, speed and accuracy. As announced. Credit, 1 semester hour.

301. Special Education Curriculum/Mentally Handicapped

A study of the development of a compensatory curriculum for the individual who is mentally handicapped. Emphasis will be placed on scope and sequence as well as the uniqueness of the curriculum for individuals. Fall or Spring. Credit, 3 semester hours.

302. Speical Education Curriculum/Learning Disabilities

A study of the development of curriculum for the learning disabled child and its relationship to the regular curriculum. Emphasis will be placed on scope and sequence as well as the uniqueness of the curriculum for individuals. Fall, Spring. Credit, 3 semester hours.

310. Introduction to the Study of the Mentally Handicapped

Study of mental handicaps as an educational, psychological social problem; includes characteristics, identification, prevalence, and educational provisions. Fall or Spring. Credit, 3 semester hours.

320. Teaching the Severely Handicapped

Study of the severely and profoundly mentally handicapped as an educational, psychological and social problem; includes characteristics, identification, prevalence, and educational provisions. As announced. Credit, 3 semester hours.

330. Teaching the Emotionally Handicapped

Designed to teach skills in the recognizing, understanding, and developing alternative strategies for remediating emotional handicaps and behavior disorders in the classroom and in the home. As announced. Credit, 3 semester hours.

340. Learning Disabilities of Children

Definition, description, and educational remediation of childhood learning disabilities. Fall or Spring. Credit, 3 semester hours.

350. Teaching the Academically Gifted

An applied course in the education of academically gifted students. Emphasis is placed upon the psychological aspects of and methods for teaching gifted/talented students. As announced. Credit, 3 semester hours.

400. Educational Assessment of Mentally Handicapped Children

An overview of the assessment process including basic concepts of measurement, test administration and interpretation, and the application of assessment information as it relates to mentally handicapped learners. Fall or Spring. Credit, 3 semester hours.

401. Educational Assessment of Learning Disabled Children

Provides an introduction to and practical experience with formal and informal techniques used to evaluate exceptional children. Emphasis includes the interpretation of assessment information for purposes of educational programming and individualization of instruction. Fall or Spring. Credit, 3 semester hours.

440. Learning Disabilities of Children II

A study of the learning impaired adolescent. Various service models are discussed and an in-depth study of the Learning Strategies Approach and the Structured Learning Approach are offered. Fall or Spring. Credit, 3 semester hours.

449. Student Teaching in Special Education

Provides continuous full-time teaching experience in an off-campus public school in special classes for exceptional children. The categorical assignment will be dependent upon the pre-service teacher's concentration. Pass/Fail grading. Fall, Spring. Credit, 6 semester hours.

470. Techniques, Materials and Resources in Special Education/Mentally Handicapped

A study of the problems, methods, materials, and techniques used in teaching exceptional children whether classified categorically or non-categorically. Fall or Spring. Credit, 3 semester hours.

471. Techniques, Materials, and Resources in Special Education/Learning Disabilities

A study of the problems, methods, techniques and materials used in teaching the learning disabled student. A diagnostic and prescriptive approach will be taught with special emphasis on the age and academic level which the student plans to teach. (Elementary, Junior or Senior High School). Fall or Spring. Credit, 3 semester hours.

480. Developmental Assessment of the Preschool Handicapped Child

This course begins with a study in all aspects of normal development and a survey of all exceptionailities as related to child development and learning. Further, the course will provide preparation in diagnostic skills in sufficient depth to develop competencies in screening and developmental assessment. Summer. Credit, 3 semester hours.

481. Techniques, Materials, and Resources in Special Education/Preschool Handicapped

This course provides for competencies in methodology, techniques of instruction, development and implementation of specific curriculum as these related to early intervention of preschool handicapped children. Fall. Credit, 3 semester hours.

482. The Preschool Handicapped in the Home/Community

This course provides experiences necessary for effective parent/family involvement. Additionally, topics include a review of community resources, related and support services and interagency networking. Spring. Credit, 3 semester hours.

490. Classroom Management and Consulting Techniques

School and home applications of behavior management techniques will be presented. Systematic training will be conducted in the acquisition and application of consulting and communication techniques for use with children and their families. Skills in consulting with teachers and other professionals will be developed. Fall or Spring. Credit, 3 semester hours.

EDUCATIONAL MEDIA (EDM)**258, 259; 358, 359; 458, 459. Radio Broadcasting Laboratory**

Prerequisite: Permission of instructor; GPA 2.0; recommendation of the Office of Student Affairs and/or major advisor.

Designed to teach fundamentals of radio broadcasting. Station WPSU is used as the laboratory. Includes orientation to station policies, operation and maintenance of equipment, and radio broadcasting. Pass/Fail grading. As announced. Credit, 1 semester hour.

360. Introduction to Graphic Arts

Prerequisite: Permission of instructor.

Designed as an introduction to handset and offset printing. Covers the areas of basic press operations, mechanics of type, copy camera operations, darkroom techniques, and plate processing. Pass/Fail grading. As announced. Credit, 3 semester hours.

361. Advanced Graphic Arts

Prerequisite: EDM 360 and/or permission of instructor.

A continuation of EDM 360. Pass/Fail grading. As announced. Credit, 3 semester hours.

460. Audio-Visual Materials and Procedures

Principles underlying the selection and use of multimedia materials for instructional purposes. Fall, Spring, Summer. Credit, 3 semester hours.

461. Advanced Educational Media

Modern communications technology and its place in instruction. Problems of utilization, evaluation of learning materials and research; television, motion pictures, teaching machines, programmed instruction and experimental innovations. Fall, Spring, Summer. Credit, 3 semester hours.

466. Workshop in Education Media for Teachers

A workshop designed to acquaint in-service teachers with the role of educational media in the teaching-learning process with the selection and utilization of major types of audio-visual materials. Summer. Credit, 3 semester hours.

GEOLOGY AND GEOGRAPHY*Chairman: THOMAS E. ROSS*

SUELLEN CABE

ELIZABETH H. KUO

The curriculum of the Department of Geology and Geography is designed to fulfill multiple needs of the student. Courses within the Department can be used by the student to meet Basic Studies requirements and to enhance the liberal arts education of the student.

The Department strives to offer courses designed to enable the student to acquire knowledge and appreciation of the dynamic environment in which mankind resides. Geography courses provide the scientific foundation for the investigation and understanding of the physical environment, of mankind as inhabitant of the earth, and of the interaction of environment and mankind. Courses in geology establish the foundation for scientific investigation of the earth as well as geologic education for the student.

The Department does not offer a major in either geology or geography, but it does offer academic concentrations in geology and in geography. It also offers a concentration in earth science in the interdepartmental Bachelor of Science program in Science Education. Please see **Special Programs** for a complete description of the Science Education major. Minors in geography and geology also are available.

Geography courses are accepted under Basic Studies Requirements as Social and Behavioral Science courses. Geology courses are accepted under the Basic Studies Requirements as Natural Sciences and Mathematics. (See note above course descriptions.)

Requirements for an Academic Concentration in Geography**Required Courses**

Course Number	Course Title	Semester Hours
GGY 101	Introduction to Geography	3
GGY 102	World Regional Geography	3
GGY 250	Cartography	3

Choose two courses from the following:

GGY 115	Earth Science	3
GGY 200	World Cultural Geography	3
GGY 206	Economic Geography	3
GGY 246	Climatology	3
GGY 262	Environmental Geology	3

Choose three courses from the following:

GGY 329	Society and Environment	3
GGY 360	Urban Geography	3
GLY 366	Geomorphology	3
GGY 401	Internship in Geography	4
		Total 24 Semester Hours

Requirements for an Academic Concentration in Geology**Required Courses**

Course Number	Course Title	Semester Hours
GLY 100	Physical Geology	3
GLY 100L	Physical Geology Lab	1
GLY 101	Historical Geology	3
GLY 101L	Historical Geology Lab	1
GLY 262	Environmental Geology	3
GLY 310	Mineralogy and Petrology	3
GLY 325	General Paleontology	3
GLY 366	Geomorphology	3
GLY 425	Stratigraphy and Sedimentology	3

Choose one of the following:

GLY 226	Physical Oceanography	3
GLY 246	Climatology	3
GGY 250	Cartography	3
		Total 26 Semester Hours

Requirements for a Minor in Geography

Course Number	Course Title	Semester Hours
GGY 101	Introduction to Geography	3
GGY 250	Cartography	3
Electives from departmental geography courses		12

Total 18 Semester Hours

Requirements for a Minor in Geology

Course Number	Course Title	Semester
CLY 100	Physical Geology	3
GLY 100L	Physical Geology Lab	1
GLY 101	Historical Geology	3
GLY 101L	Historical Geology Lab	1
GLY 310	Mineralogy and Petrology	3
GLY 325	General Paleontology	3

Choose two from the following:

GLY 226	Physical Oceanography	3
GLY 262	Environmental Geology	3
GLY 366	Geomorphology	3
GLY 425	Stratigraphy and Sedimentology	3
GGY 250	Cartography	3

Total 20 Semester Hours

COURSES

GEOLOGY (GLY)

Geology 100 and 115 may be used to meet Basic Studies requirements in the Natural Science and Mathematics area.

100. Physical Geology

Introduction to earth materials and processes. Topics include minerals and rocks, weathering, landscape formation by streams, glaciers and ocean waves, study of volcanoes, earthquakes and plate tectonics. Fall, Spring. Credit, 3 semester hours.

100L. Physical Geology Laboratory

Prerequisites: Current enrollment in or completion of GLY 100.

Study of common minerals and rocks; use of topographic and geologic maps. Fall. Credit, 1 semester hour.

101. Historical Geology

Prerequisites: GLY 100 or GLY 115.

Geologic history of the earth as recorded in the rock record. Evolution of continents and oceans, geologic time, fossils and the development of life through time. Spring. Credit, 3 semester hours.

101L. Historical Geology Laboratory

Prerequisites: Current enrollment in or completion of GLY 101.

Study of animal and plant fossils, environments of deposition, geologic maps. Spring. Credit, 1 semester hour.

115. Earth Science (GGY 115)

Includes topics in geology, oceanography, meteorology and astronomy. Minerals and rocks, volcanoes, earthquakes; ocean tides and currents, shoreline processes; atmospheric pressure, wind, precipitation, weather patterns; sky observation, solar system. Spring. Credit, 3 semester hours.

115L. Earth Science Laboratory (GGY 115L)

Prerequisites: Current enrollment in or completion of GLY 115.

Study of common minerals and rocks, topographic maps, climate classification, weather processes. Spring. Credit, 1 semester hour.

226. Physical Oceanography

Prerequisites: GLY 100 or GLY 115.

Ocean circulation, properties of ocean water, waves and tides, and processes of shoreline erosion and deposition. The relationship between marine processes and human use of coastal areas will be emphasized. Spring, odd years. Credit, 3 semester hours.

246. Climatology (GGY 246)

The same course as Geography 246. As announced. Credit, 3 semester hours.

262. Environmental Geology (GGY 262)

Prerequisites: GLY 100 or GLY 115.

Aspects of geology related to problems arising from intensive use of the earth by modern society. The use of earth materials, energy resources and groundwater will be considered along with land use planning. Fall, odd years. Credit, 3 semester hours.

310. Mineralogy and Petrology

Prerequisites: GLY 100 or GLY 115.

Study of minerals and rocks with an emphasis on origins, classification and identification. Fall, even years. Credit, 3 semester hours.

325. General Paleontology

Prerequisites: GLY 100 and BIO 100.

Study of fossil invertebrates, vertebrates and plants with emphasis on evolutionary trends. Fall, even years. Credit, 3 semester hours.

366. Geomorphology

Prerequisites: GLY 100.

Advanced study of landforms—fluvial, solution, glacial, marine, eolian, volcanic and structural. History of geomorphic theories and regional landforms will also be covered. Fall, odd years. Credit, 3 semester hours.

425. Stratigraphy and Sedimentology

Prerequisites: GLY 101.

Study of environments of deposition of sediments and stratigraphic principles including facies and correlation. Classic examples from the geologic record will be used. Spring, even years. Credit, 3 semester hours.

GEOGRAPHY (GGY)

Geography 101, 102, 200, and 206 may be used to fulfill Basic Studies requirements in the Social and Behavioral Science area.

101. Introduction to Geography

The study of the earth's physical environment and the relationships between people and that environment. Important components of this course include: population growth and movement, racial, economic, and political patterns, spatial origins of diverse religions and languages, landforms, soils, vegetation, weather, and climate. Fall, Spring. Credit, 3 semester hours.

102. World Regional Geography

Survey of most countries and regions of the world. An examination of cultures, economies, and physical characteristics as they relate to contemporary problems in world affairs. Presents an overview of the multicultural earth. Fall and Spring. Credit, 3 semester hours.

111. Geography of Current Events

An examination of the geographic themes of location, place, regions, and interactions of physical—cultural environments as they apply to world current events. Spring. Credit, 2 semester hours.

115. Earth Science (GLY 115)

The same course as GLY 115. Spring, Fall. Credit, 3 semester hours.

115L. Earth Science Laboratory (GLY 115L)

The same course as GLY 115L. Spring. Credit, 1 semester hour.

200. World Cultural Geography

Concept of culture applied to the human environment. Geographical variations and evolution resulting from interaction between cultural and physical processes. Culture and technological change. Population and migration. Cultural effects on perception of the environment. Spring. Credit, 3 semester hours.

206. Economic Geography (ECN 206)

Location, development and distribution of major industries, agricultural products, and economic services. As announced. Credit, 3 hours.

246. Climatology (GLY 246)

Scientific analysis and classification of climate data. Climatic controls. Geographic areas and their major types of climate. As announced. Credit, 3 hours.

250. Introduction to Cartography

Concepts and skills of map and air-photo interpretation. Cartographic techniques and conventions for planning the use of terrain and resources. Spring. Credit, 3 semester hours.

262. Environmental Geology (GLY 262)

The same course as GLY 262. Fall, odd years. Credit, 3 semester hours.

299. Geography of Robeson County

Prerequisite: GGY 101 or permission of instructor.

A survey of the cultural and physical environments of Robeson County. This course is a regional study assessing the natural and human resources with special attention to current ecological, social, and economic problems. As announced. Credit, 2 semester hours.

329. Society and the Environment (SOC 329)

A study of the social aspects of the natural environment. Environmental factors influencing societal development, and ideological conceptions which relate people to their surroundings are explored. The interdependence of culture and physical resources is stressed. Fall. Credit, 3 semester hours.

360. Urban Geography

Spatial structures, forms and functions of urban settlements. Size and spacing of towns and cities. Arrangement of land uses. Central business districts. Poverty, blight and renewal. Ports, transportation, and hinterlands. As announced. Credit, 3 semester hours.

372. North America

Analysis of physical and cultural bases of North American geographic patterns. Emphasis upon natural conditions, settlement patterns, and regional structure. As announced. Credit, 3 semester hours.

401. Internship in Geography

Prerequisite: Permission of instructor.

Practical experience with a planning agency through an arranged internship. Supervision is provided by a designated official of the agency and by a member of the department faculty. As announced. Credit, 4 semester hours.

HEALTH, PHYSICAL EDUCATION AND RECREATION*Chairman: TOMMY THOMPSON**

ELLEN BRYAN
ED CRAIN
DANNY DAVIS
HAROLD ELLEN
JOHN HASKINS
DAN KENNEY
DAWN LANGLEY

RAY PENNINGTON
LINDA PITTS
LARRY RODGERS
MIKE SCHAEFFER
P.J. SMITH
LISA WAWRZYNIAK

*Physical Education Coordinator

The purposes of the Department of Health, Physical Education and Recreation are: (1) to provide a comprehensive academic program in health, physical education, and recreation for students who plan to pursue one of these fields as a profession; (2) to provide professional preparation for prospective teachers in the area of physical education; (3) to provide a service program which will afford all students the opportunity to learn and participate in a wide range of activities which will benefit them now and in the future; (4) to provide competition for all interested students through a comprehensive program of intramural athletics in both team and individual sports; and (5) to provide recreational activities that will enable students and faculty to enjoy their leisure time in a program that will benefit them physically, mentally, and socially.

DEGREES OFFERED

Bachelor of Science Degree in Health, Physical Education, and Recreation: Sports Medicine/Athletic Training

Bachelor of Science Degree in Health, Physical Education, and Recreation

Bachelor of Science Degree in Health, Physical Education, and Recreation: Recreation Management/Administration

Bachelor of Science Degree in Physical Education with Certification by the State for Teaching in the Public Schools

MINORS OFFERED

Minor in Physical Education
Minor in Athletic Coaching

Minor in Health Education
Minor in Recreation

**Requirements for a Bachelor of Science Degree in Physical Education with
Certification by the State for Teaching in the Public Schools
(see p. 72 for Teacher Education Requirements)**

Orientation Requirement	1
Basic Studies Requirements (6 hrs. History and 6 hrs. Literature required)	50
Major Requirements: HED 109, 315; PED 104, 107, 138, 173 or 240, 236, 241, 316, 319, 325, 348, 349, 415, 424, and four 1-hr. coaching courses	36
Professional Education Requirements: EDN 202, 227, 308, 419, 437, 448, PED 400	25
Academic Concentration (all PE certification majors are required by the State to take an academic concentration)	<u>16-21</u>
	Total 128-133

**SUGGESTED CURRICULUM GUIDE FOR PE CERTIFICATION
Freshman Year**

Fall		Spring	
Orientation	1	Basic Studies	12
Basic Studies	9	HED 315	3
HED 109	3	PED 138 (Basic Studies)	1
PED 241 (Basic Studies)	1	Coaching Course	1
Academic Concentration	<u>3</u>		
	18		17

Sophomore Year

Basic Studies	6	Basic Studies	12
PED 236	3	EDN 202	3
PED 104	1	Academic Concentration	3
Coaching Course	1		
Coaching Course	1		
EDN 227	3		
Academic Concentration	<u>3</u>		
	18		18

Junior Year

Basic Studies	6	Basic Studies	3
PED 348	3	PED 349	4
PED 316	3	PED 319	3
EDN 308	3	EDN 419	3
Academic Concentration	3	Coaching Course	1
	<u>18</u>	PED 240 or PED 173	1
		Academic Concentration	<u>3</u>
			18

Senior Year

PED 424	3	PED 400	3
PED 415	3	Student Teaching	9
PED 325	1		
EDN 437	1		
Academic Concentration	<u>9</u>		
	17		<u>12</u>

Requirements for a Bachelor of Science Degree in Health, Physical Education, and Recreation (Non-Certification)

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements	50
Major Requirements: HED 109, 311, 315, 328, 418; PED 107, 134 or 140, 138, 230, 231, 236, 240 or 173, 241, 316, 319, 325, 348, 349, 415, 424, four 1-hr. coaching courses	50
Electives	<u>27</u>
Total	128

SUGGESTED CURRICULUM GUIDE FOR PE NON-CERTIFICATION**Freshman Year**

Fall		Spring	
PED 138	1	HED 315	3
HED 109	3	Basic Studies	12
PED 107	1	PED 240 or PED 173	1
PED 134 or 140	1		
Orientation	1		
Basic Studies	<u>9</u>		
	16		<u>16</u>

Sophomore Year

HED 311	3	HED 418	3
PED 236	3	PED 241	1
Coaching course	1	Basic Studies	12
Basic Studies	<u>9</u>		
	16		<u>16</u>

Junior Year

PED 230	1	PED 231	1
PED 348	3	Coaching course	1
Coaching Course	1	PED 349	4
PED 316	3	PED 319	3
Coaching course	1	Basic Studies	4
Basic Studies	4	Elective	3
Elective	<u>3</u>		
	16		<u>16</u>

Senior Year

PED 325	1	REC 428	3
PED 424	3	PED 415	3
HED 328	1	Electives	10
Electives	<u>11</u>		
	16		<u>16</u>

Requirements for a Bachelor of Science Degree in Health, Physical Education, and Recreation: Recreation Management/Administration

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements	50
Major Requirements:	
ART 108 or 306; CMA 209 or 210; BIO 210; PSY 225	
HED 106; 109; 315	
REC 300; 320; 327; 425; 450	
PED 101; 104; 106; 107; 134 or 140; 138; 230; 231; 172, 173 or 240;	
316; 319; 349; 415	
Four (4) 1-hr. coaching courses	
Seven (7) of the following 1-hr. PE activity courses: PED 130, 131, 132,	
133, 135, 137, 139, 141, 145, 146, 179, 180, or 231	67
Electives	<u>10</u>
Total	128

Requirements for a Bachelor of Science Degree in Health, Physical Education, and Recreation: Athletic Training

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements Note: PSY 100 and BIO 100 required in Basic Studies	50
Major Requirements: [BIO 100]; [PSY 100]; HED 109, 315; 328; PED 105, 106, 205, 305, 348, 349, 405, 424.	30
Electives and/or another major	<u>47</u>
	128

Additional Requirements:

1. Each student must spend a minimum of 1500 clock hours gaining practical experience under the supervision of an N.A.T.A. certified athletic trainer; the student can earn these hours in four years of undergraduate school, summer school, sports camps, etc. no more than 200 clock hours can be earned in a clinical setting (e.g., hospital).
2. Each student must earn at least an overall 2.5 GPA in the five specific sports medicine courses listed above (i.e., PED 105, 106, 205, 305, 405).

Suggested Timetable for Athletic Training Course Offerings
Freshman Year

	Fall		Spring	
PED 105		3	HED 109	
BIO 100		3	PSY 100	
Sophomore Year				
HED 315		3	PED 349	4
PED 348		3		
Junior Year				
PED 205		3	PED 328	1
			PED 305	3
Senior Year				
PED 106		1	PED 405	3
			PED 424	3

Requirements for Certification in Health and Physical Education for the B.S. in Middle Grades Education (6-9)

HED 109, 311, 418		9 hrs.
PED 138, 141, 319, 415, 424		11 hrs.
	Total	20 hrs.

Requirements for a Minor in Athletic Coaching

HED 315; PED 230, 231, 326, 348, 349, 415, four 1-hr. coaching courses	20
	Total 20 hrs.

Requirements for a Minor in Physical Education

HED 109, 315; PED 107, 134 or 140, 230 or 231, 236, 240, 241, 319, 325, 415, two 1-hr. coaching courses	23
	Total 23 hrs.

Requirements for a Minor in Health Education

HED 109, 311, 315, 418; BIO 103; SOC 373, 377.	21
	Total 21 hours

Requirements for a Minor in Recreation

HED 109;	
PED 134 or 140; 230; 231;	
REC 300; 320; 327; 425;	
Four (4) 1-hr. Coaching Courses	
Five (5) 1-hr. PE activity courses chosen from the following list: PED 130, 131, 132, 133, 135, 137, 139, 141, 145, 146, 179, 180, or 231	24 Sem. Hrs.

COURSES

HEALTH EDUCATION (HED)

106. Cardiopulmonary Resuscitation (CPR)

A certified course in cardiopulmonary resuscitation (CPR) that includes adult and infants CPR and airway obstruction technique. Fall, Spring. Credit, 1 semester hour.

109. Basic Concepts in Health, Safety, and First Aid

Emphasis on personal hygiene and the student's obligation to serve society through the promotion of individual, family, and public health; fundamental and practical application of administering the techniques of first aid and safety using the approved Red Cross First Aid course. Fall, Spring. Credit, 3 semester hours.

310. Health Education Activities for Grades K-6

The principles, practices, and procedures in health education for grades K-6. Fall, Spring. Credit, 3 semester hours.

311. Health Education Activities for Grades 7-12

The principles, practices, and procedures in health education for grades 7-12. Fall, Spring. Credit, 3 semester hours.

315. Prevention and Care of Athletic Injuries

Emphasizes training in the prevention, diagnosis, and care of athletic injuries with practical application in strapping, bandaging, and the use of special protective equipment in treatment. Fall, Spring. Credit, 3 semester hours.

328. Practicum in Athletic Training

Prerequisite or Co-Requisite: HED 315.

Practical application in bandaging, rehabilitation equipment, injury prevention and first aid. Fall, Spring. Credit, 1 semester hour.

418. Health and Physical Education Activities for Exceptional Children

Designed especially for teachers of exceptional children; practical application of health and physical education activities appropriate for varying age, grade, and handicapped levels. Spring. Credit, 3 semester hours.

PHYSICAL EDUCATION (PED)

101. Wellness and Fitness

Basic, practical concepts concerning health, disease, fitness, exercise, nutrition, etc., will be covered as related to personal wellness and fitness. Fall, Spring. Credit, 1 semester hour.

104. Physical Education Activities for the Adaptive Child

Designed especially for teachers of exceptional children; practical application of physical education activities, equipment, and modification of facilities for adaptive children; age, grade, and handicap levels will be considered. Fall, Spring. Credit, 1 semester hour.

105. Introduction to Sports Medicine/Athletic Training

An introductory course for potential trainers in their first year of clinical experience in athletic training/sports medicine (i.e., freshman year); topics include safety in the training room, musculoskeletal and surface anatomy, sports medicine terminology, basic legal issues, basic taping and use of therapeutic modalities. The primary purpose of the course is to prepare the student for obtaining "learning tools" of athletic training/sports medicine. Fall. Credit, 3 semester hours.

106. Nutrition for Physical Activities

Designed to investigate topics in nutrition which are most relevant to physical activity and sports participation. Along with general nutrition information, topics will include the effects foods have on physical performance, eating disorders, and proper bodyfat control. Fall, Spring. Credit, 1 semester hour.

107. Computer Technology in Health, Physical Education, and Recreation

Basic and thorough on-task development of computer hardware, terminals, operations, software, peripheral systems, recorders, printers, etc. instruction methods as well as computer-assisted-instruction will be discussed and developed within the discipline. Fall, Spring. Credit, 1 semester hour.

130. Fitness Walking

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

131. Archery

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

132. Badminton

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

133. Golf

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

134. Beginning Swimming

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

135. Tennis

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

137. Bowling

Half-semester (8-week) course. \$15 fee. Fall, Spring. Credit, 1 semester hour.

138. Teaching Methods in Rhythms

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

139. Racquetball

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

140. Intermediate Swimming

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

141. Physical Conditioning

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

145. Volleyball

Half-semester (8-week) course. Fall. Credit, 1 semester hour.

146. Weight Training

Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.

150. Varsity Baseball

Athletes only; P/F grade only. Spring. Credit, 1 semester hour.

151. Varsity Men's Basketball

Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester only.

- 152. Varsity Cross Country**
Athletes only; P/F grade only. Fall. Credit, 1 semester only.
- 153. Varsity Golf**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 154. Varsity Soccer**
Athletes only; P/F grade only. Fall. Credit, 1 semester only.
- 156. Varsity Men's Tennis**
Athletes only; P/F grade only. Fall, Spring. Credit, 1 semester only.
- 157. Varsity Track and Field**
Athletes only; P/F grade only. Spring. Credit, 1 semester hour.
- 158. Varsity Wrestling**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 159. Varsity Cheerleading**
Squad members only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 160. Varsity Women's Basketball**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 161. Varsity Women's Tennis**
Athletes only; P/F grade only. Fall or Spring. Credit, 1 semester hour.
- 162. Varsity Volleyball**
Athletes only; P/F grade only. Fall. Credit, 1 semester hour.
- 163. Varsity Softball**
Athletes only; P/F grade only. Spring. Credit, 1 semester hour.
- 172. Lifeguard Training**
Half-semester (8-week) course Fall, Spring. Credit, 1 semester hour.
- 173. Water Safety Instructor's (WSI) Course**
Instructor's course in teaching swimming and lifesaving techniques leading to Red Cross certification. Red Cross prerequisites are Lifeguard Training (PED 172) and current First Aid/CPR certification card (HED 109). Fall or Spring. Credit, 2 semester hours.
- 177. Advanced Physical Conditioning**
Aimed at varsity athletes. Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 178. Advanced Weight Training**
Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 179. Aerobic Dance**
Half-semester (8-week) course. Fall, Spring. Credit, 1 semester hour.
- 180. The Art of Self Defense (MSC 180)**
Half-semester (8-week) course. Fall. Credit, 1 semester hour.
- 205. Assessment of Athletic Injuries**
Designed for students seeking N.A.T.A. certification; a course in athletic injury evaluation and identifying injury risk factors; topics also include anatomical, physiological, and psychological response to injury, splinting, bracing, and casting; evaluation of each body part will be covered along with associated injuries. Fall. Credit, 3 semester hours.

230. Officiating Sports I

An intensive study of the rules and mechanics of officiating football, soccer, volleyball, and wrestling. Special emphasis will be placed on the rules published by the respective National Alliance. Fall. Credit, 1 semester hour.

231. Officiating Sports II

An intensive study of the rules and mechanics of officiating basketball, baseball, and softball. Special emphasis will be placed on the rules published by the respective National Alliance. Spring. Credit, 1 semester hour.

236. Foundations of Health and Physical Education

A study of the relationships and contributions of health and physical education to general education; historical and philosophical backgrounds, basic biological, physiological, and sociological foundations of the modern program. Fall, Spring. Credit, 3 semester hours.

240. Skills and Methods of Teaching Swimming

Methods, materials, techniques, and skills of teaching swimming. Fall, Spring. Credit, 1 semester hour.

241. Skills and Methods of Teaching Stunts, Tumbling, and Gymnastics

Methods, materials, techniques, and skills of teaching stunts, tumbling, and gymnastics. Fall and Spring. Credit, 1 semester hour.

305. Treatment of Athletic Injuries

Designed for students seeking N.A.T.A. certification; course covers the physical basis and physiological effects of agents and modalities commonly used in the treatment of athletic injuries; emphasis will be on establishing a foundation for selecting a treatment protocol for an injury. Spring. Credit, 3 semester hours.

312. Sports in Contemporary Society (SOC 312)

A study of sports from a sociocultural perspective, including the relationship of sports to other social institutions, stratification within sports, and changing conceptions of leisure and sports. The popular literature on sports will be examined. Spring. Credit, 3 semester hours.

316. Physical Education Activities for Grades K-6

A study of the materials and methods of physical education in grades K-6 as it relates to rhythms, fitness, group play, and other physical activities appropriate to these age levels. Fall, Spring. Credit, 3 semester hours.

319. Physical Education Activities for Grades 7-12

A study of the materials and methods of physical education in grades 7-12, as it relates to rhythms, fitness, group play, and other physical activities appropriate to these age levels. Fall, Spring. Credit, 3 semester hours.

325. Practicum in Physical Education

Practical experience in teaching physical education activities. Student is assigned to a member of the physical education faculty. Fall, Spring. Credit, 1 semester hour.

326. Practicum in Athletic Coaching

Practical field experience in coaching athletic teams. Student is assigned to either a member of the University coaching staff or a junior or senior high school coaching staff as an assistant. Fall, Spring. Credit, 1 semester hour.

348. Anatomy and Kinesiology

An analytical, practical study of the structure of the human body and kinetic body movements in physical education and sports. Fall. Credit, 3 semester hours.

349. Physiology/Exercise Physiology

An analytical, practical study of the physiology of the systems of the body and how exercise affects the various systems of the body. Spring. Credit, 4 semester hours (course meets five days per week).

350. Coaching Football*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

351. Coaching Basketball (Men or Women)*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall and Spring. Credit, 1 semester hour.

352. Coaching Track and Field*

A study of fundamentals, individual techniques, conditioning, maintaining facilities, and staging events. Spring. Credit, 1 semester hour.

353. Coaching Baseball*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Spring. Credit, 1 semester hour.

354. Coaching Wrestling*

A study of fundamentals, moves, strategies, and conditioning. Spring. Credit, 1 semester hour.

355. Coaching Soccer*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

356. Coaching Softball*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Spring. Credit, 1 semester hour.

364. Coaching Volleyball*

A study of offensive and defensive play, strategies, fundamentals, and conditioning. Fall. Credit, 1 semester hour.

366. Coaching Tennis*

A study of fundamentals, individual techniques, conditioning, drills, and conducting matches. Spring. Credit, 1 semester hour.

400. Methods of Teaching Health and Physical Education (EDN 400)

Purposes, methods, materials, techniques, and evaluation procedures in health and physical education for K-12. Directed observation in the public schools; preparation of teaching plans and materials. Fall, Spring. Credit, 3 semester hours.

405. Rehabilitation of Athletic Injuries

Designed for students seeking N.A.T.A. certification; course covers the principles of rehabilitation and its psychological effects; assessment of several aspects of the student/athlete's rehabilitation; hands-on practice with equipment; the basics of procedures, criteria, and modalities for returning a student/athlete to competition are covered. Spring. Credit, 3 semester hours.

415. Organization and Administration of Health, Physical Education and Recreation

A study of the organization and administration of school health, physical education, & recreation with particular reference to relationships with the general education program and the work of the health, physical education, and recreation specialist. Fall, Spring. Credit, 3 semester hours.

*All coaching courses are half-semester (8-week) courses.

424. Tests and Measurement in Physical Education

An analysis of the methods of testing and evaluating in physical education; also an overview of statistics and data interpretation. Fall, Spring. Credit, 3 semester hours.

RECREATION (REC)**300. Introduction to Community Recreation**

An introduction to the basic concepts of organized recreation including its philosophy, history, organizational patterns, programs, facilities, and leadership. Fall. Credit, 3 semester hours.

320. Recreation Leadership and Supervision

An overview of practices, methods, and the processes of staff development in leisure service including an analysis of varied leadership functions and methods. Fall. Credit, 3 semester hours.

327. Practicum in Recreation

Practical field experience in an off-campus setting including city and county public recreation agencies. Fall, Spring. Credit, 1 semester hour.

425. Leisure Activities for Middle and Older Adulthood

The study of the physical, social, and emotional characteristics, needs, and interests of middle and older adulthood related to fitness and leisure activities utilizing a theoretical and practical approach. Spring. Credit, 3 semester hours.

450. Internship in Recreation Management/Administration

Prerequisite: Senior standing.

This course is coordinated by a University faculty member of the Department of HPER. The student will be under the supervision of an experienced recreation administrator for experiences related to the operation of a recreation program. The assignment will be within a municipal, county, state, or private agency which has as one of its primary functions that of providing recreation programs. Plans must be made in advance with the faculty advisor and approved by the Department Chairperson. Fall, Spring. Credit, 6 semester hours.

HISTORY*Chairman: DAVID K. ELIADES*

ROBERT W. BROWN*
 LOREN L. BUTLER, II
 JOHN CHAY

BRUCE J. DeHART
 KATHLEEN C. HILTON
 JEROME A. McDUFFIE
 WILLIAM P. TURNER

*Social Studies Education Coordinator

History is a liberating discipline. Through the study of the political, social, and cultural aspects of modern society and the rise and development of major civilizations, an individual is able to expand his insights into the human experience and achievement. The study of history enables the individual to understand the major issues which confront mankind and makes possible a more reasoned and intelligent response to these problems.

The Department offers preparation to individuals intent upon almost every career and profession. While the Department offers a sound foundation for students who wish to teach history and other social studies, it also prepares students to continue with graduate or special work in history. Courses offered by the Department likewise provide a background for students who wish to study law, enter government service, or obtain a background for other professions.

Programs of study offered by the Department of History include a major and a minor in History, a certification program in Secondary Social Studies Education, a 6-9 Social Studies program for Middle Grades certification candidates, and an Academic Concentration in History for prospective teachers.

History majors will be assigned an advisor whose responsibility it is to help students plan their program. History majors must have the approval of their advisor to register for advanced history courses.

While the History Department does not require a foreign language, students planning graduate study in history should acquire a reading knowledge of one modern foreign language and take History 451 (Senior Seminar).

Requirements for a Bachelor of Arts Degree in History

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	36
Basic History (100 and 200 level courses)	(12)
Four courses from HST 101, 102, 126, 127, 210, and 250	
Advanced History (300 and 400 level courses)	(24)
Option 1	
Two courses each from the American and Euro- pean areas; one course from the Latin American, Canadian, and non-Western area; HST 435 or HST 451; and two electives.	

Option 2

Approval of Contract

HST 435 and HST 451; six approved electives.

Electives

41Total 128

Requirements for a Bachelor of Arts in History: Secondary Social Studies Education

The Department of History offers a program of study that prepares students for certification by the North Carolina State Department of Public Instruction as teachers of the Social Studies in grades 9-12. This program has four major components: Basic Studies, the History major, a collateral requirement in the Social Studies, and Professional Education coursework. Certification candidates must complete satisfactorily the Basic Studies requirements of the University and the requirements for a B.A. in History established by the Department. The History major for certification candidates, although identical with the major followed by non-certification History majors in structure and the number of hours required, requires the prospective teacher to take courses that specifically prepare him/her to teach History in a secondary school setting. Accordingly, the History major for certification candidates identifies certain courses as required and limits the number of courses from which the student may choose his/her electives. Certification candidates must also satisfy the Social Studies requirement, a literature requirement, the Professional Education requirements needed for certification, and the competency requirements established by the State Board of Education. Additionally, students seeking admission to this program must meet the criteria listed on pages 72-76 for admission to the Teacher Education program and for admission to the Professional Semester. Students planning to earn a Bachelor of Arts in History: Secondary Social Studies Education should, therefore, be aware that this program requires preparation in addition to that required for the Bachelor of Arts in History without certification. Except for courses listed as professional credits for teacher certification, the additional courses required in the Secondary Social Studies Education program, when overlap or duplication occurs, may also satisfy the Basic Studies requirements of the University. Students seeking Secondary Social Studies certification must meet with the Secondary Social Studies Coordinator in the History Department before registering for any courses.

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Certification candidates are required to take six semester hours in Literature; choose from the following: American Literature (CMA 220, 221); or English Literature (CMA 246); or World Litera- ture (CMA 205, 206); or Introduction to Literature (CMA 203)	
History Requirements	30-36*
Basic History (100 and 200 level courses)	(12)
HST 101, 102, 127, and 250	
Advanced History (300 and 400 level courses)	(24)
Six semester hours from HST 305, 306, 310, 314, 315, 316, 341, 360, 410, and 413.	
Six semester hours from HST 321, 323, 327, 329, 332, 421, 427, 432, and 433.	

Three semester hours from HST 344, 351, 372, 386, and 394.	
HST 435 or HST 451	
Guided Electives: HST 317 and one additional advanced history course from those listed above (excluding HST 435 and 451).	
Social Studies Requirement	15-27**
ECN 201; GGY 101 or 102 or 200; PLS 100 or 101; SOC 101 or 201; SOC 105; SSE 300 and 365. Six additional semester hours in one of the following fields: economics, geography, political science, or sociology. Courses listed as directed research, field work, independent study, and in- ternship cannot be used to satisfy this requirement.	
Professional Education	25
EDN 202, 227, 308, 419, 437, 445, and 448; SSE 400	
Electives	7-0
	Total 128-139

*Six semester hours of history can be counted under Basic Studies.

**Twelve semester hours of social studies can be counted under Basic Studies.

ACADEMIC CONCENTRATION IN HISTORY

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the History Department offers an Academic Concentration in History. This Academic Concentration is available to other students, regardless of major. This Concentration of 27 semester hours offers the prospective teacher both breadth and depth of study. The required Core Courses (15 semester hours) in American History, North Carolina History, Modern European History in a Global Context, and Non-Western History provide a solid foundation of knowledge. The Elective Courses (12 semester hours) provide each student with the opportunity to select advanced History courses in areas of personal or professional interest. Six semester hours of this Academic Concentration count toward the University's Basic Study requirements. Students seeking certification to teach in the public schools of North Carolina are encouraged to select courses dealing with modern American, modern European, or modern world history.

Academic Concentration in History (27 hours)

A. Required Core Courses (15 sem hrs):

- HST 101 3 sem hrs
- HST 102 3 sem hrs
- HST 127 3 sem hrs
- HST 250 3 sem hrs
- HST 317 3 sem hrs

B. Elective Courses (12 sem hrs):

The student will choose, with the consent of his/her advisor, four (4) courses from the following: HST 305, 306, 310, 314, 315, 316, 321, 323, 327, 329, 332, 341, 344, 351, 360, 372, 386, 394, 410, 413, 421, 427, 432, and 433.

Students seeking Middle Grades (6-9) certification in the Social Studies must complete, in addition to the Academic Concentration, a program of collateral courses in the Social Sciences. For additional information concerning Middle Grades certification in the Social Studies, see below.

MIDDLE GRADES (6-9) CERTIFICATION IN SOCIAL STUDIES

The Social Studies Program (Grades 6-9) provides the prospective Middle Grades teacher with a balanced interdisciplinary program of study in History and the Social Sciences. Designed specifically to meet the guidelines established by the North Carolina Department of Public Instruction and to prepare certification candidates to teach the Social Studies subjects prescribed for the public schools of North Carolina, the comprehensive program features study in Anthropology, Economics, Geography, History, Political Science, and Sociology.

For students who select an Academic Concentration in History, the Middle Grades (6-9) certification program in the Social Studies consists of two parts: the Academic concentration in History and collateral courses in the Social Sciences that satisfy State Department of Public Instruction guidelines. Eighteen hours of the coursework required for this program may be applied to Pembroke State University's Basic Studies requirements.

1. Academic Concentration in History (27 hours):**A. Required Core Courses (15 sem hrs):**

HST	101	3 sem hrs
HST	102	3 sem hrs
HST	127	3 sem hrs
HST	250	3 sem hrs
HST	317	3 sem hrs

B. Elective Courses (12 sem hrs):

The student will choose four (4) courses from the following. HST 305, 306, 310, 314, 315, 316, 321, 323, 327, 329, 332, 341, 344, 351, 360, 372, 386, 394, 410, 413, 421, 427, 432, and 433.

2. Collateral Courses in the Social Sciences (18 sem hrs):

ECN 201	3 sem hrs
PLS 100 or PLS 101	3 sem hrs
GGY 101, 102, or 200	6 sem hrs
(Select 2 GGY courses)	
SOC 101 or SOC 201	3 sem hrs
SOC 105	3 sem hrs

Program Summary

1. Academic Concentration in History (Overlap with Basic Studies: 6 sem hrs)	27 sem hrs
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2. Collateral Courses in the Social Sciences)	18 sem hrs
(Overlap with Basic Studies: 12 sem hrs)	

Overlap with Basic Studies	45 sem hrs
	-18 sem hrs

Total Hours Beyond Basic Studies	27 sem hrs
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For students who select an Academic Concentration other than History and who seek Middle Grades (6-9) Certification in the Social Studies, the following program of study must be completed. Where overlap occurs, required courses may be counted for Basic Studies, the Academic Concentration, and Middle Grades (6-9) Certification in the Social Studies.

1. Academic Concentration (must be in Geography, Political Science, or Sociology)	24-27 sem hrs
2. Collateral Courses in the Social Studies:	
SOC 101 or SOC 201	3 sem hrs
SOC 105	3 sem hrs
PLS 100 or PLS 101	
(PLS 101 is recommended)	3 sem hrs
HST 101, 102, 127, 250, and 317	15 sem hrs
GGY 101, 200, or 202	
>Select 2 GGY courses)	6 sem hrs
ECN 201	3 sem hrs
	33 sem hrs

Program Summary:

1. Academic Concentration in a Social Science	24-27 sem hrs
2. Collateral Courses in the Social Sciences	33 sem hrs
57-60 sem hrs	

Students seeking Middle Grades (6-9) Certification in the Social Studies may wish to consider combining it with 9-12 Social Studies certification. With careful planning and advisement, a student will be able to complete both programs, thereby enhancing his/her prospects for employment. Students interested in combining 6-9 Social Studies Certification with 9-12 certification in the Social Studies should see the Secondary Social Studies Coordinator in the History Department.

Students seeking Middle Grades (6-9) Certification in the Social Studies must consult with the Secondary Social Studies Coordinator in the History Department before registering for courses; checksheets for the Middle Grades Social Studies program are available from the Coordinator.

Requirements for a Minor in History

18 hours of history, of which 12 hours must be in 300 and 400 level courses.

COURSES**HISTORY (HST)****INTRODUCTORY COURSES****101. American Civilizations to 1877**

A survey of the major political, economic, social, and cultural developments in the United States to 1877, with some attention to Canada. Fall, Spring. Credit, 3 semester hours.

102. American Civilizations since 1877

A survey of the major political, economic, social, and cultural developments in the United States since 1877, with some attention to Canada. Fall, Spring. Credit, 3 semester hours.

126. Early European Civilization through 1648

A survey of early European civilizations from their pre-Greek origins through 1648. Fall, Spring. Credit, 3 semester hours.

127. Modern European Civilization in a Global Context

A survey of major trends in European social, economic, cultural, and political history since 1648. Historical developments within modern Europe are viewed from a global perspective. Fall, Spring. Credit, 3 semester hours.

210. History of the American Indian (AIS 210)

A survey of the major Indian cultures of North America with emphasis on those located in the eastern half of the United States. Fall, Spring. Credit, 3 semester hours.

250. Modernization in Global Perspective

An examination of Latin American, African, and Asian civilizations as they undergo modernization. Fall. Credit, 3 semester hours.

U.S. HISTORY**305. United States History: The Colonial Period, 1607-1763**

Prerequisite: Permission of instructor.

A study of the American colonial experience to the end of the French and Indian war. Fall. Credit, 3 semester hours.

306. United States History: The Revolutionary and Early National Period, 1763-1844

Prerequisite: Permission of instructor.

A study of the major political, economic, social, and cultural developments from 1763 to 1844. Spring. Credit, 3 semester hours.

310. United States History: Sectionalism, Civil War, and Reconstruction, 1844-1877

Prerequisite: Permission of instructor.

A thematic and topical study of American history from 1844 to 1877 with an emphasis on sectionalism, the Civil War, and Reconstruction. Spring. Credit, 3 semester hours.

314. United States History: The Gilded Age and Progressivism, 1877-1912

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions from 1877-1912. Fall, Spring. 3 semester hours.

315. United States History: War, Prosperity, and Depression, 1912-1945

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions from 1912-1945. Fall, Spring. 3 semester hours.

316. United States History: Recent America, 1945-Present

Prerequisite: Permission of instructor.

An analysis of political, economic, and social conditions since 1945. Fall, Spring. 3 semester hours.

317. History of North Carolina

Prerequisite: Permission of instructor.

A study of selected phases of the development of North Carolina from its colonial beginnings to the present. Fall, Spring. Credit, 3 semester hours.

341. U.S. Economic History (ECN 341)

Prerequisite: Permission of instructor.

A thematic study of the economy of the United States from colonization to the present. Spring. Credit, 3 semester hours.

360. Afro-American History

Prerequisite: Permission of instructor.

A treatment of the Black people in American history from their African origins to the present. Fall. Credit, 3 semester hours.

378. The American West: Myth and Reality (CMA 378)

Prerequisite: Permission of instructor.

An interdisciplinary study of the American West through films, literature, and history. Although the course will emphasize the events of the period from 1850 to 1890.

It will also attempt to show the influence of the West as a concept down to the present. Spring. Credit, 3 semester hours.

406. U.S. Military History (MSC 421)

Prerequisite: Permission of instructor.

A survey of American military policies and operations from 1776 to the present with emphasis on World War II, the Cold War, Korea, and Viet Nam. Fall or Spring. Credit, 3 semester hours.

410. U.S. Social History

Prerequisite: Permission of instructor.

A study of the evolution of American society from colonial times to the twentieth century, including emphasis on patterns of daily life, social structure, and reform movements. Fall or Spring. Credit, 3 semester hours.

413. History of U.S. Foreign Policy

Prerequisite: Permission of instructor.

A study of the major trends, issues, and problems in U.S. foreign policy. Fall, Spring. Credit, 3 semester hours.

EUROPEAN HISTORY**321. Ancient History**

Prerequisite: Permission of instructor.

A survey of ancient history from the beginnings of civilization to A.D. 500. Fall. Credit, 3 semester hours.

323. The Middle Ages

Prerequisite: Permission of instructor.

A survey of the development of western cultures from the fall of Rome to the Renaissance. Fall. Credit, 3 semester hours.

324. Byzantine and Islamic History

Prerequisite: Permission of instructor.

A survey of the history of the Mediterranean world from A.D. 284 to A.D. 1453. Spring. Credit, 3 semester hours.

327. Early Modern Europe, 1500-1789

Prerequisite: Permission of instructor.

A survey of European history from the Renaissance to the French Revolution. Fall. Credit, 3 semester hours.

329. Revolution, Liberalism, and Nationalism in Europe, 1789-1914

Prerequisite: Permission of instructor.

A survey of European civilization from the French Revolution to the outbreak of the First World War. Spring. Credit, 3 semester hours.

332. Twentieth Century Europe

Prerequisite: Permission of instructor.

A study of conflict and cooperation in an era of global war, with emphasis on the interaction of democracy, communism, fascism, and imperialism. Spring. Credit, 3 semester hours.

337. Modern European Economic and Social History

A survey of the European economy and social classes from the birth of capitalism to the present. Fall, Spring. Credit, 3 semester hours.

417. Modern English History

Prerequisite: Permission of instructor.

A survey of the major developments in English history from the establishment of the Tudor dynasty (1485) to the present. Fall, Spring. Credit, 3 semester hours.

421. History of Modern Germany, 1866 to the Present

Prerequisite: Permission of instructor.

An analysis of German history from the era of Bismarck to the present, with special emphasis on the unification of Germany, the two world wars, the Nazi Revolution, and the problem of a divided Germany. Fall, Spring. Credit, 3 semester hours.

427. European Intellectual History since 1400

Prerequisite: Permission of instructor.

A study of the main currents of European thought, with special emphasis on the Renaissance, Reformation, Enlightenment, Liberalism, and Socialism. Fall, Spring. Credit, 3 semester hours.

432. A History of Imperial Russia from 1682 to 1917

Prerequisite: Permission of instructor.

An examination of Russia's political, social, economic, and cultural development from the reign of Peter the Great to the fall of the Romanovs in February 1917. Fall, Spring. Credit, 3 semester hours.

433. History of Soviet Russia, 1917 to the Present

Prerequisite: Permission of instructor.

An examination of Soviet Russia's development from the 1917 revolution to the present day, with special emphasis on Leninism, Stalinism, and post-Stalinism. Fall, Spring. Credit, 3 semester hours.

LATIN AMERICAN, CANADIAN, AND NON-WESTERN HISTORY**344. History of the Modern Far East**

Prerequisite: Permission of instructor.

A history of China, Japan, and Korea, with special attention to the problems of modernization. Fall, Spring. Credit, 3 semester hours.

345. The United States and the Far East

Prerequisite: Permission of instructor.

A study of the major factors and the processes concerning American involvement in the Far East from the beginning of the Republic to the present; to include the nature of the international system in the Far East and changing American interest and policies in the region. Fall or Spring. Credit, 3 semester hours.

351. History of the Modern Middle East

Prerequisite: Permission of instructor.

A study of the major trends and issues in the Middle East in the modern world. Fall, Spring. Credit, 3 semester hours.

372. History of South Asia

A study of the Indian subcontinent with an emphasis on cultural, social, and economic aspects; the Moslem and Mogul eras; the British period; and events since 1945. Fall. Credit, 3 semester hours.

385. Indians of Latin America (AIS 324)

A study of the history, culture and contemporary achievements of the Indians residing south of the Rio Grande. Fall. Credit, 3 semester hours.

386. Latin America Since Independence

Prerequisite: Permission of instructor.

An examination of Latin America from Independence to the present. Emphasis will be placed on the historic antecedents of current events and Latin America's place in World affairs. Fall. Credit, 3 semester hours.

394. History of Canada

Prerequisite: Permission of instructor.

A study of Canada from the early explorations and settlements to the present with special emphasis on the French and British in Canada, the advance from self-government to Confederation, and the relations of Canada with the United States and the British Commonwealth. Fall, Spring. Credit, 3 semester hours.

COLLOQUIA AND SEMINARS**402. Colloquium: Selected Topics in American History**

Prerequisite: Permission of instructor.

An investigation into selected topics in American history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

426. Colloquium: Selected Topics in European History

Prerequisite: Permission of instructor.

An investigation into selected topics in European history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

440. Colloquium: Selected Topics in Non-Western History

An investigation into selected topics in Non-Western history through reading significant books, discussions, and supplementary reports. The focus of the course will be determined by the specialization of the instructor. Fall, Spring. Credit, 3 semester hours.

451. Senior Seminar

Prerequisite: 2.0 G.P.A. in history courses taken, and completion of 15 hours of advanced history courses.

A study of special problems in a selected area of history with emphasis on historiography, methods, research, and writing skills. Fall, Spring. Credit, 3 semester hours.

GENERAL AND SPECIAL COURSES**370. Introduction to Public History**

Prerequisite: Permission of instructor.

An introduction to the operation and problems of historical agencies, problems of preservation and exhibition, archives management, historical editing and publishing, historical sites, and the techniques and processes of public history. Fall. Credit, 3 semester hours.

399. Directed Reading in History

Prerequisite: Permission of instructor, completion of all lower division history requirements, and six hours of advanced history.

Directed reading under the guidance of instructor. Fall, Spring, Summer. Credit 1-3 semester hours.

435. Topics in History

Designed for non-majors, this course will focus on one topic of general interest and explore it in detail; the topic will be announced in the schedule of courses. Possible topics include: Revolution in the Modern World; Hitler and Nazi Germany; and the American Civil War. This course may be taken only once for credit. Spring. Credit, 3 semester hours.

455. Historical Sites Study

Prerequisite: Permission of instructor.

A conducted tour of selected historical sites with an emphasis on a particular period or geographical area of history. Cannot be used to satisfy requirements for history major. Summer. Credit, 2-6 semester hours.

483. Workshop: Selected Topics in History

A workshop designed to assist pre-service and in-service teachers in expanding their conceptual understanding of a selected topic in history. Instruction will center on an in-depth investigation of the announced topic; special attention will be given to the problem of relating the announced topic to the secondary Social Studies curriculum in North Carolina. Summer. Credit, 3 semester hours.

499. Independent Study in History

Prerequisite: Permission of the Department.

Directed reading and research under the guidance of the instructor in a specific area or problem in history. Scheduled only for senior history majors with the approval of the Chairman of the Department. Fall, Spring. Credit, 1-3 semester hours.

SOCIAL STUDIES EDUCATION (SSE)

The courses in Social Studies Education are designed to help prospective teachers to develop the competencies needed in the classroom. These courses should be taken only after the student has given careful consideration to career objectives. The Social Studies Education courses are not history courses, and they cannot be used to meet history requirements.

300. Introduction to Teaching Social Studies in the Secondary School

Required of history majors seeking certification

Prerequisite: EDN 227 and 15 semester hours in history and social studies with a 2.5 average.

An overview of the social studies in the secondary school, an introduction to past and present trends in the social studies curriculum, and early field experiences for prospective teachers of the social studies. Such early field experiences include a planned and supervised program of observation and participation in the social studies classroom that introduces the certification candidate to the secondary student and the school setting. Fall, Spring. Credit, 3 semester hours.

365. Social Studies for the Secondary Teacher

Required of history majors seeking certification

Prerequisite: Thirty semester hours in history and social studies or permission of the instructor and SSE 300.

An introduction for the certification candidate to the nature, scope, objectives, source materials, and methodologies of the social studies (anthropology, economics, geography, history, political science, and sociology). The student is required to review representative curriculum materials and to integrate principles, concepts, and methods characteristic of the social studies that are appropriate for the secondary curriculum. Fall, Spring. Credit, 3 semester hours.

400. Methods of Teaching Social Studies in the Secondary School (EDN 400)

Required of history majors seeking certification.

Prerequisites: SSE 300, 360, 361, and 30 hours in history with a 2.5 quality point average. Materials and basic teaching strategies employed in teaching social studies in grades nine through twelve. Fall, Spring. Credit, 3 semester hours.

MATHEMATICS AND COMPUTER SCIENCE*Chairman: GILBERT L. SAMPSON +*

DONALD E. BEKEN
CAROL BREWER
JOSEPH W. GOLDSTON
OSCAR JONES
ROBERT LAMPERE
RAYMOND McDANIEL
WALTZ MAYNOR

DAMON SCOTT
PHILLIP SLOAN
THOMAS STROMMER
CLIFFORD TREMBLAY
WILLIAM TRUMAN
ALAN YOST

+ Mathematics Education
Coordinator

Mathematics is a precise and demanding subject which has remained a central part of mankind's intellectual achievement for over three thousand years. Important not only in intellectual affairs but in practical matters as well, mathematics has assumed a greater and wider role in today's world with the development of the digital computer. The role of the computer has become and is increasingly more important in mankind's everyday and technological world. As such, computing has evolved into a science covering the study of languages, programming, and theoretical concepts. The Department offers courses covering both the intellectual and practical sides of mathematics, the ground between, and digital computing.

A student of the Department of Mathematics and Computer Science has the opportunity of earning a Bachelor of Science degree (B.S.) in either Mathematics or Computer Science or a Master of Arts in Education; Mathematics Education (M.A.Ed.). The Mathematics major also may choose to gain certification to teach mathematics at the secondary level, or to follow a track in computer science. The computer science major may also acquire concentrations in mathematics, physical science, or business. The Department offers minors in both mathematics and computer science and also cooperates with the Education Department in offering a concentration in mathematics for Middle Grades Education majors.

The Departmental faculty welcomes the opportunity to advise the major and non-major alike. Someone thinking of majoring in mathematics and computer science is especially urged to consult with the Department Chairman prior to registering for Basic Studies courses. All majors choose advisors and are urged to consult with them periodically in order to plan and carry out their program of study.

Most non-majors fulfill the Basic Studies requirement in mathematics by taking one of MAT 105, 106, 107 or 108. Well-prepared students may select MAT 109 or 221 for this purpose.

Requirements for a Bachelor of Science Degree in Mathematics: Major in Mathematics

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107 and 108, or MAT 109, or equivalent courses in secondary school; also MAT 220, 221, 222, 315, 316, 325, 431, and twelve additional semester hours of advanced mathematics	36-42
Electives	<u>35-41</u>
Total	128

Requirements for a Bachelor of Science Degree in Mathematics with Certification by the State to Teach Mathematics at the Secondary Level (see Teacher Education, pp. 72-76, for Requirements.)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107** and 108**, or MAT 109***, or equivalent courses in secondary school; also MAT 220, 221, 315, 316, 325, 328, 402, 411, 431, CSC 202, and six additional semester hours of advanced mathematics	36-42
Professional Education Requirements	
EDN 202, 227, 308, 419, 437, 445, 448; MAT 250, 400	27
Electives	<u>8-14</u>
Total	128

Requirements for a Bachelor of Science Degree in Mathematics: Major in Computer Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	
MAT 107** and 108**, or MAT 109***, or equivalent. MAT 221*, 222*, 315, 328; CSC 155 or equivalent as determined by Placement Test; also CSC 215, 255, 275, 325, 355, 395; two courses, at least one 400 level, from CSC 365, 375, 385, 415, 425, 435, 445, 455, or 465; and three courses, at least one 400 level, from MAT 317, 322, 325, 327, 329, 330, 415, or 444	45-56
Electives	<u>21-32</u>
Total	128

*Students who plan a major in mathematics should consult with the Department Chairman prior to registering for Basic Studies courses.

**Counts toward six (6) hours of Basic Studies.

***Counts toward 4-6 hours of Basic Studies.

Requirements for a Bachelor of Science Degree in Computer Science

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	32-39
CSC 155 or equivalent as determined by Placement Test, CSC 215, 255, 275, 325, 355, 365, 375, 395; MAT 109*** or equivalent. Mat 221***, 222***, 315, 328.	
Four courses from one of the following categories:	12-14
Category I: Computer Theory	
Both: CSC 415, 435; two courses selected from CSC 425, 445, 465; MAT 327, PHY 356	
Category II: Computer Information Systems	
Both: CSC 385, 455; two courses selected from CSC 465; BUS 307, 308	
Category III: Computer Engineering	
CSC 200 or one of CSC 415 or 435; two courses from PHY 200, 201, 356; EGR 205	
Electives	<u>24-33</u>
Total	128

Requirements for an Academic Concentration in Mathematics

	Sem. Hrs.
MAT 107** and 108**, or MAT 109***, or equivalent courses in secondary school.	
MAT 220, 221, 222, 315, 328, 411	
CSC 202	23

Requirements for Certification in Mathematics for the B.S. in Middle Grades Education (6-9)

	Sem. Hrs.
Middle Grades Certification in Mathematics requires the Academic Concentration in Mathematics in addition to the following:	
MAT 106, 250, 300, 402	11

Requirements for a Minor in Mathematics

	Sem. Hrs.
MAT 221, 222, 315, 316; and three additional hours selected from advanced mathematics courses (300 or above)	18

*Students who plan a major in Computer Science should consult with the Department Chairman prior to registering for Basic Studies courses.

**Counts toward six (6) hours of Basic Studies.

***Counts toward 4-6 hours of Basic Studies.

Requirements for a Minor in Computer Science

	Sem. Hrs.
CSC 155 or equivalent as determined by Placement Test; CSC 215, 255, 275; one course from CSC 325 or 355; and at least one additional course from CSC 201, 325, 355, 365, 375, or 385	18

COURSES

GENERAL (MAT)

104. Fundamentals of Mathematics

Development of basic skills in mathematics, emphasizing computational measurement and problem-solving skills. (Will not count toward graduation requirements). Fall, Spring. Credit, 3 semester hours.

105. Introduction to College Mathematics

Prerequisites: MAT 104 or appropriate score on the Mathematics Placement Examination. A study of the real number system and its applications. Introduction to sets, functions and algebraic concepts including simple equations, formulas, and graphing. Introduction to probability and statistics. Fall, Spring, Summer. Credit, 3 semester hours.

106. Foundational Concepts of Mathematics

Prerequisites: Appropriate score on Mathematics Placement.

A general concept course including such topics as sets, bases, modular arithmetic, and the development of real number system. Fall, Spring, and Summer. Credit, 3 semester hours.

107. College Algebra

A study of the real numbers, algebraic expressions and sets. First and second order equations, and first order inequalities and their graphs. Functions, exponents and logarithms. Fall, Spring, Summer. Credit, 3 semester hours.

108. Plane Trigonometry

Prerequisite: MAT 107.

Angular measure, solution of right triangles, trigonometric function values of any angle, fundamental trigonometric relations, graphs of the trigonometric functions, solution of oblique triangles, and logarithmic solution of triangles. Fall, Spring, Summer. Credit, 3 semester hours.

109. College Algebra and Trigonometry

Real and complex numbers, sets, inequalities, functions and their graphs; polynomials, rational functions, and algebraic functions; exponential, logarithmic, and trigonometric functions. Analytic geometry. Fall, Spring. Credit, 4 semester hours.

118. Finite Mathematics

Prerequisite: MAT 107 or equivalent.

Set theory, symbolic logic, permutations and combinations, probability, conditional probability, matrices and systems of equations. Some applications to stochastic processes, Markov chains, linear programming, statistics. Fall, Spring, Summer. Credit, 3 semester hours.

201. Elements of Metric Geometry.

Prerequisites: MAT 105, 106.

Designed to give the general student a complete overview of the measurement aspects of geometry from a Euclidean point of view. Topics include linear measurement, perimeter, area, volume, congruence, and similarity, symmetry, and transformations. Constructions using variety of approaches will receive particular emphasis. Fall, Summer. 3 semester hours.

210. Introduction to Statistics (SOC 210)

Recommended prerequisite: MAT 107.

Elementary statistical analysis using a computer-based statistics package and data. Measures of central tendency and variability; properties of the binomial, normal, and Poisson distributions; hypothesis testing and sampling; and regression analysis. A required one hour per week laboratory. Fall. Credit, 3 semester hours.

ANALYSIS (MAT)**215. Calculus with Applications**

Prerequisites: MAT 107 or MAT 109 or equivalent.

Required For: Biology Majors. Not open to Mathematics Majors.

A study of functions of one variable; derivatives, integrals and their applications to Biological Sciences and Business. Special attention will be given to exponential functions with respect to growth and decay applications. Topics of multivariable Calculus will also be included. Fall, Spring. Credit, 4 semester hours.

221. Calculus I

Prerequisites: MAT 107 and MAT 108, or MAT 109, or equivalent.

Study of functions of one variable, topics from analytic geometry, limits and continuity; differentiation of algebraic functions; curve sketching; various applications chosen from physics, economics, and optimization. Fall, Spring, Summer. Credit, 4 semester hours.

222. Calculus II

Prerequisite: MAT 221.

A study of integrals, the definite integral, the fundamental theorem of the calculus, applications of the definite integral. The derivative and integral of exponential, logarithmic, trigonometric and inverse trigonometric functions; and techniques of integration. Fall, Spring, Summer. Credit, 4 semester hours.

316. Intermediate Calculus

Prerequisite: MAT 222.

Selected topics from Calculus I and II from an advanced viewpoint. L'Hospital's rule, improper integrals, Taylor's theorem, infinite series. Multivariable calculus: limits, continuity, partial derivatives, extrema, iterated integrals, and applications. Fall, Spring. Credit, 4 semester hours.

322. Differential Equations

Prerequisite: MAT 316.

An introduction to ordinary differential equations including classification of solutions to differential equations, existence and uniqueness of solutions, power series methods, initial value problems, and applications. Spring. Credit, 3 semester hours.

431. Advanced Calculus I

Prerequisites: MAT 316, and MAT 220.

An introduction to modern mathematical analysis with careful attention to topics of elementary and intermediate calculus of one or more variables. Topics include convergence of sequences and series, mean value theorems, the Cauchy criterion, integrability. Fall. Credit, 3 semester hours.

432. Advanced Calculus II

Prerequisite: MAT 431.

A continuation of Advanced Calculus I including such topics as the total derivative of multivariable functions, transformations of R^n , representations of functions by series and integrals, and uniform convergence. Spring. Credit, 3 semester hours.

444. Complex Analysis

Prerequisite: MAT 316.

The complex numbers, analytic functions, conformal mappings, contour integration, Cauchy's theorem and integral formula. Taylor and Laurent expansions, residues, analytic continuation. Liouville's theorem. As announced. Credit, 3 semester hours.

ALGEBRA AND NUMBER THEORY (MAT)**315. Linear Algebra I**

Prerequisite: MAT 222.

An introduction to the theory of vector spaces, linear transformations, systems of linear equations, matrices, inverses, rank, determinants, inner products. Applications of matrices to problems involving systems of equations. Fall, Spring. Credit, 3 semester hours.

317. Linear Algebra II

Prerequisite: MAT 315.

Eigenvalues and eigenvectors, similarity of matrices, reduction of matrices to diagonal form. Cayley-Hamilton theorem, minimum polynomial, Jordan canonical form. Hermitian, unitary, and normal matrices, orthonormal basis, Gram-Schmidt process. Simplification of quadratic forms and other applications. As announced. Credit, 3 semester hours.

325. Algebra I

Prerequisite: MAT 315.

Introduction to groups, integral domains, rings and fields, with further study of subgroups, cyclic groups, groups of permutations, isomorphisms and homomorphisms of groups, direct products, and factor groups. Spring. Credit, 3 semester hours.

326. Algebra II

Prerequisite: MAT 325.

Further topics in group theory; rings, integral domains, fields, ideals, quotient rings, homomorphisms, direct sums, polynomial rings, extension fields. Fall. Credit, 3 semester hours.

415. Theory of Numbers

Prerequisite: MAT 222.

An introduction to the properties of integers, prime and composite numbers, Fermat's Theorem, arithmetic functions, quadratic residues, diophantine equations, continued fractions and congruences. As announced. Credit, 3 semester hours.

APPLIED MATHEMATICS (MAT)**327. Numerical Analysis**

Prerequisites: MAT 315, 316; CSC 200.

An introduction to the solution of mathematical problems by computational techniques, including both finite and iterative methods and error analysis. Spring. Credit, 3 semester hours.

328. Probability and Statistics I

Prerequisite: MAT 222.

Probability, sample spaces, counting techniques, random variables, discrete and continuous distribution functions, characteristic functions. Binomial, Poisson, and normal distributions. Central limit theorems. Fall. Credit, 3 semester hours.

329. Applied Mathematics

Prerequisite: MAT 315.

Introduction to mathematical modeling. Techniques and properties of discrete and continuous models. Case studies. Fall. Credit, 3 semester hours.

330. Probability and Statistics II

Prerequisites: MAT 316, 328.

An introduction to common theoretical distributions, central limit theorems, two dimensional random variables, sampling distributions, estimation, confidence intervals, hypothesis testing, regression theory and applications. Spring. Credit, 3 semester hours.

OTHER PURE MATHEMATICS (MAT)**220. Point Set Theory**

Prerequisite: MAT 107 or MAT 109 or equivalent.

Introduction to set theory, elementary concepts of the topology of the real line and the plane, elementary logic, and techniques of proof. Mathematics majors should take this course concurrently with Calculus I or Calculus II. Spring. Credit, 3 semester hours.

411. College Geometry

Prerequisite or corequisite: MAT 315.

A study of the development of Euclidean geometry from the metric and synthetic approach and an introduction to non-Euclidean geometry. Fall. Credit, 3 semester hours.

448. Special Topics (Variable Title)

Prerequisites: Teaching certificate.

A study of special topics in mathematics or mathematics education. The selected topics will be an in-depth study of a content area or they will be selected over the breadth of a content area. As announced. Credit, 3 semester hours.

499. Independent Study

Offered for mathematics majors on approval of the Department Chairman. Credit, 1-3 semester hours.

MATHEMATICS EDUCATION (MAT)**250. Introduction to Teaching Mathematics in the Secondary Schools**

Prerequisites: EDN 227, MAT 221.

Designed to provide an overview of mathematics in the secondary school and early experiences for prospective mathematics teachers. These experiences include a planned program of observational and participatory experience in the mathematics classroom. Spring. Credit, 2 semester hours.

300. The Teaching of Mathematics in the Middle Grades (6-9)

Prerequisite: Junior Standing.

Required for: Mathematics concentration in The Middle Grades (6-9).

Presents modern techniques and methods of teaching mathematics in the middle grades (6-9). Laboratory work provides deeper understanding of mathematical concepts and experience with materials and methods appropriate for classroom use. As announced. Credit, 3 semester hours.

400. Methods of Teaching Mathematics in Secondary Schools (EDN 400)

Purposes, methods, materials, and evaluation procedures in teaching mathematics. Directed observation in public school mathematics classes. Preparation of teaching plans and materials. Accelerated. Spring. Credit, 3 semester hours.

402. A Historical Development of Mathematics

Prerequisites: MAT 222.

A study of the development of mathematics in its historical setting from its earliest beginnings to modern times. Note: This course may not be used as an Advanced Mathematics requirement for the Major in Mathematics. Spring. Credit, 3 semester hours.

COMPUTER SCIENCE (CSC)**100. Introduction to Computers**

The content of this course includes a discussion computer hardware, computer software, the history of computing, and typical applications of computers. A significant amount of time is devoted to such applications as word processing, spreadsheets, data bases, and graphics. Additional topics for discussion include a brief introduction to computer languages, effects of computers on society and the individual, data communications, and artificial intelligence. Fall, Spring, and Summer. 3 semester hours.

155. Foundations of Computing

Overview of the local computing environment. History of digital computers. Introduction to computer organization, data representation, and programming. Fall, Spring, Summer. Credit, 3 semester hours.

200. Introduction to Computer Programming—FORTRAN

Prerequisites: CSC 100, MAT 107, or permission of instructor.

A first course in programming using concepts of structural programming and algorithmic analysis with emphasis on scientific applications. Details of structured FORTRAN. As announced. Credit, 3 semester hours.

201. Introduction to Computer Programming—COBOL

Prerequisite: CSC 100 or permission of instructor.

A first course in programming using concepts of structured programming and algorithmic analysis with emphasis on data processing applications. Details of the COBOL language. As announced. Credit, 3 semester hours.

202. Microcomputer Programming

Prerequisites: CSC 100, or CSC 155, or permission of instructor.

A first course in microcomputer programming and operating systems, emphasizing both numeric and string processing, and structured programming. Details of the PASCAL and BASIC languages, using both IBM compatible and Apple microcomputers. Features of these two systems will also be compared. Fall, Spring, Summer. Credit, 3 semester hours.

215. Discrete Structures

Prerequisite: MAT 109 or equivalent.

Discrete structures with applications to Computer Science. Boolean algebra. Sets. Functions and relations. Propositional logic. Induction. Permutations and combinations. Finite state machines. Trees and graphs. Vectors and matrices. Fall, Spring. Credit, 3 semester hours.

255. Programming and Algorithms I

Prerequisite: CSC 155.

Introduction to programming. Pascal language. Representation of data, constants, and variables. Arithmetic and logical expressions. Simple I/O. Arrays. Subprograms. Searching, sorting, and merging. Techniques of problem solving. Stepwise refinement. Principles of documentation. Fall, Spring, Summer. Credit, 3 semester hours.

275. Programming and Algorithms II

Prerequisites: CSC 255 and MAT 109.

Principles of good programming style. Control flow. Debugging and testing. String processing. Further methods of searching and sorting. Recursion. Stacks and linked lists. Records and built-up data types. Fall, Spring, Credit, 3 semester hours.

325. Fundamentals of Computer Systems

Prerequisites: CSC 215, 275.

Computer structure, machine language, assembly language, and addressing modes. File structures and I/O. Memory management. Assemblers, linkers, and loaders. Fall. Credit, 3 Semester hours.

355. Data Structures

Prerequisites: CSC 215 and CSC 275.

Design of algorithms. Graphs, paths, and trees. Analysis of algorithms for internal and external sorting, searching, and merging. Hashing. Algorithms for dynamic storage allocation. Fall, Spring. Credit, 3 semester hours.

365. Introduction to Computer Architecture

Prerequisite: CSC 325.

Basic logic design and sequential circuits. Digital storage and access. Study of a processor. Microprogramming. Alternate architectures. Spring. Credit, 3 semester hours.

375. Programming Languages

Prerequisite: CSC 325 and CSC 355.

An introduction to programming languages design and implementation. Survey of several major languages and their features. An emphasis on implementation details. Spring. Credit, 3 semester hours.

385. File Processing With COBOL

Prerequisites: CSC 325, CSC 355, and MAT 222.

File processing environment. Sequential access. External sort and merge algorithms. Random access methods. Trees, lists, inverted lists, multilists. Indexed sequential and hierachial structures. COBOL language. Spring. Credit, 3 semester hours.

395. Introduction to Finite Automata

Prerequisite: CSC 325, CSC 355, and MAT 222.

Introduction to formal language theory, finite automata, regular expressions and regular grammars. Push-down automata and context-free grammars. Turing machines and context-sensitive grammars. Fall. Credit, 3 semester hours.

405. Current Topics in Computers in Education

Prerequisite: Permission of instructor.

Use of computers in Education. Discussion, use, and evaluation of computer software and hardware for the classroom. Applications to curriculum development. The course is designed as a service course for teachers and can be used only as a guided elective. It is not to be counted for the mathematics concentration at the graduate level. The course will include a required lab. As announced. Credit, 3 semester hours.

415. Translators and Compilers

Prerequisites: CSC 375, CSC 395.

Interpreters, assemblers, and compilers. Grammar, languages, syntax, semantics, and BNF. Parsing and symbol tables. One and two pass assemblers. Design of interpreters and compilers. Large programming project. Spring. Credit, 4 semester hours.

425. Advanced Software Project

Prerequisites: CSC 305, CSC 325, CSC 355, and MAT 222.

An assigned, individual, in-depth programming project including design, documentation, and testing. As announced. Credit, 3 semester hours.

435. Operating Systems

Prerequisites: CSC 365 and MAT 222.

I/O and interrupt structure, procedure activation. Monitors and kernels. System evaluation with elementary queuing, modelling, and statistical analysis. Memory management with paging, virtual memory, and multiprogramming. Process management, semaphores, deadlocks, and schedulers. Large programming project. Fall. Credit, 4 semester hours.

445. Theory of Computation and Algorithms

Prerequisites: CSC 305, CSC 325, CSC 355, and MAT 222.

Analysis of algorithms. Advanced data structures. Time and space complexity. Turing machines. Proof of correctness. As announced. Credit, 3 semester hours.

455. Systems Analysis and Design Project

Prerequisites: CSC 305 and CSC 385.

Formal models of structured design and programming. Information hiding. Iterative enhancement. Structure of programming teams. Program libraries, walk-throughs and documentation. Development of a large software project by student teams. Spring. Credit, 4 semester hours.

465. Database Management Systems

Prerequisites: CSC 385.

Goals of DBMS including data independence, relationships, logical and physical organizations, schema, and subschema. Hierarchical, network and relational models. Examples of implementation. Data descriptor languages. Query facilities. File organization. Index organization. Data integrity and reliability. As announced. Credit, 3 semester hours.

495. Seminar in Computer Science

Prerequisites: CSC 305, CSC 325, CSC 355, and MAT 222; permission of instructor. Advanced software topics. As announced. Credit, 3 semester hours.

496. Seminar in Computer Science

Prerequisites: CSC 305, CSC 325, CSC 355, and MAT 222; permission of instructor. Advanced hardware topics. As announced. Credit, 3 semester hours.

499. Independent Study

Open to seniors in Computer Science with a quality point average of 3.0 in the major and with approval of the Department Chairman. Required written and oral reports. As announced. Credit, 1-3 semester hours.

In addition to courses of study listed in this section, the Department of Mathematics and Computer Science offers a Master of Arts in Mathematics Education. See the graduate section of this catalog for a description of this program.

MUSIC*Chairman: ROBERT L. ROMINE*

ROBERT M. DAWLEY*

HAROLD C. SLAGLE

WILLIAM F. FRITZ

GEORGE R. WALTER

ELIZABETH W. MAISONPIERRE

*Music Education Coordinator

The Department of Music is a full member of the National Association of Schools of Music. The requirements set forth in this catalog are in accordance with the published regulations of the National Association of Schools of Music.

The purposes of the Department of Music are: to provide comprehensive training for teachers of vocal and instrumental music; to provide a well-rounded course of study for those students pursuing a professional career in music or continuing in graduate work; to provide experience which the music student and the general university student will find rewarding in developing their cultural sensitivity; and to provide public programs and concerts to enrich the cultural life of the University and the community.

The Department of Music offers degree programs in music education and performance. In addition, minors exist in Music, Sacred Music, and Jazz Studies.

Requirements for a Bachelor of Arts in Music with a Concentration in Performance

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Core Music Requirements	
MUS 100 or 141, 101 or 142, 113*, 114, 115, 159, 160, 181 or 159, 182 or 160, 193, 200, or 241, 201 or 242, 214, 215, 259, 260, 281 or 259, 282 or 260, 295*, 296*, 300 or 341, 301 or 342, 329, 334, 359, 360, 395, 401 or 441, 404, 459	41
Performance Concentration Requirements	
MUS 159***, 160, 236, 237, 259, 260, 332, 373, 359, 360, 402 or 442, 432, 445, 459, 460; **100-402, 141-442, 165-466, 156-457, 162-463, 335-435.	25
Music Electives	8
General Electives	3
	<hr/>
Total	128

*Courses are in Basic Studies.

**4 hours of ensemble other than major ensemble are to be selected.

***16 hours of applied credit must be completed in the major performance area.

Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Arts in Music with a Concentration in Music Industry

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Core Music Requirements:	
MUS 101 or 141, 101 or 141, 113*, 114, 115, 159, 160, 181 or 159, 182 or 160, 193, 300 or 241, 201 or 242, 214, 215, 259, 260, 281 or 259, 282 or 260, 295*, 296*, 300 or 341, 301 or 342, 329, 334, 359, 360, 395, 401 or 441, 404, 459	39
Music Industry Concentration Requirements	
MUS 171, 172, 191, 205, 271, 400, 420, 433, 499, BUS 227, 228, 307, 312, 415, ECN 201*.	35
Electives	<u>3</u>
Total	128

*Courses are in Basic Studies.

Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses.

Requirements for a Bachelor of Science Degree in Music Education with a Vocal Concentration and with Certification by the State to Teach Music in the Public Schools (see p. 72 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements:	
MUS 100, 101, 113, 114, 115, 159, 160, 171, 172, 181 or 159 182 or 160, 191, 193, 200, 201, 205, 214, 215, 259, or 260, 281 or 259, 282 or 260, 271, 295, 296, 300, 301, 329, 334, 395, 359, 360, 401, 404, 405, and 459	56-57
Professional Education Requirements:	
EDN 202, 227, 308, 419, 437, 445, 448; and MUS 400	25
Music Elective	<u>1</u>
Total	133-134

Requirements for a Bachelor of Science Degree in Music Education with an Instrumental Concentration and with Certification by the State to Teach Music in the Public Schools (see p. 72 for Teacher Education requirements)

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements:	
MUS 113, 114, 1115, 141, 142, 159, 160, 171, 172, 181 or 159, 182 or 160, 191, 193, 205, 214, 215, 241, 242, 259, 260, 271, 281 or 259, 282 or 260, 295, 296, 329, 334, 395, 341, 342, 359, 360, 404, 420, 441 and 459	57-58
Professional Education Requirements:	
EDN 202, 227, 308, 419, 437, 445, 448; MUS 400	25
Electives	<u>0</u>
Total	133-134

*Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses. Teacher certification requirements of 6 hours of literature and 6 hours of history would each be satisfied in part by Music 296 and Music 395.

Requirements for a Bachelor of Science Degree in Music Education with a Keyboard Concentration and with Certification by the State to Teach Music in the Public Schools (Vocal Orientation).

Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements:	
MUS 100, 101, 113, 114, 115, 159 (20 or 21), 160 (20 or 21), 171, 172, 191, 193, 200, 201, 205, 214, 215, 259 (20 or 21), 260 (20 or 21), 271, 295, 296, 329, 334, 335, 336, 359 (20 or 21), 360 (20 or 21), 395, 404, 405, 425, 435, 459 (20 or 21)	61-62
Professional Education Requirements:	
EDN 202, 227, 308, 419, 437, 445, 448; and MUS 400	25
Electives	<u>0</u>
Total	137-138

Requirements for a Bachelor of Science Degree in Music Education with a Keyboard Concentration and with Certification by the State to Teach Music in the Public Schools (Instrumental Orientation).

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements:	
MUS 113, 114, 115, 141, 142, 159 (20 or 21), 160, (20 or 21), 171, 172, 191; 193, 205, 214, 215, 241, 242, 259 (20 or 21), 260 (20 or 21), 271, 195, 296, 329, 334, 335, 336, 359 (20 or 21), 360 (20 or 21), 395, 404, 420, 425, 435, 459 (20 or 21)	61-62
Professional Education Requirements:	
EDN 202, 227, 308, 419; 437, 445, 448; and MUS 400	25
Electives	<u>0</u>
Total	137-138

*Students who plan a major in music or music education should consult with the Department Chairman prior to registering for Basic Studies courses. Teacher certification requirements of 6 hours of literature and 6 hours of history would each be satisfied in part by Music 296 and Music 395.

Academic Concentration in Music

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Music Department offers an Academic Concentration of 27 hours.

Required Courses

Course Number	Course Title	Semester Hours
MUS 113, 114, and 115		9
MUS 230; MUS 295, 296, 299, or 395		6
MUS 100, 101, and 200 or 141, 142, and 241		3
MUS 159, 160, and 161		3
MUS 181, 182, and 281		3
MUS 329		<u>3</u>
		Total 27

MINOR IN MUSIC

The Minor in Music is designed to provide opportunities for any student to develop an understanding and appreciation of music as part of a liberal arts education.

Students who plan a Minor in Music should consult with the Department Chairman in order to acquire a music advisor in addition to their major advisor.

Required Courses		Sem. Hrs.
MUS 113	Fundamentals of Music Theory	3 hrs.
MUS 181-182	Class Piano I & II	2 hrs.
MUS 230	Introduction to Music Appreciation	3 hrs.
MUS 100-201	Concert Choir or University Band	3 hrs.
Electives*		7 hrs. (or more)
		Total
		18 (or more)

* A minimum of seven hours to be chosen under the supervision of a Music Department advisor from courses with a music (MUS) prefix.

MINOR IN SACRED MUSIC

Designed for those students who would find it beneficial, both financially and aesthetically, in their future careers. The student will develop skills that will enable him or her to work successfully in the area of sacred music.

The minor in sacred music requires a minimum of 18 semester hours:

Required Courses		Sem. Hrs.
MUS 100-201	Concert Choir	4 hrs.
MUS 329	Conducting	3 hrs.
MUS 390	Church Music	3 hrs.
Electives		8 hrs. (or more)
		Total
		18 hrs. (or more)

* A minimum of 8 semester hours to be chosen under the supervision of a Music Department advisor from the following:

MUS 159-260 (Sect. 01)	Private Voice
MUS 159-260 (Sect. 03)	Private Organ
MUS 159-160 (Sect. 02)	Private Piano
MUS 191	Class Voice
MUS 230	Introduction to Music Appreciation
MUS 295-296-395	Music History and Literature I, II, & III
MUS 490	Service Playing

MINOR IN JAZZ STUDIES

A program of study designed to equip music majors to perform and teach music in the jazz idiom.

Required Courses	Sem. Hrs.
MUS 235	3 hrs.
MUS 236-237	4 hrs.
MUS 346	2 hrs.
MUS 406	3 hrs.
MUS 162-363	
or	
MUS 156-357	University Jazz Choir
	<u>6 hrs.</u>
Total	18 hrs

COURSES (MUS)

THEORY AND GENERAL MUSIC

113. Fundamentals of Music Theory

A comprehensive study of notation, key structure, chord construction, ear training, terminology, and aesthetic principles. Fall. Credit, 3 semester hours. (Students who are excused from MUS 113 by advanced placement must select electives from the theory-composition area upon completion of prerequisites.)

114. Theory I

Prerequisite: MUS 113 or equivalent as determined by instructor.

A study of the basic elements of harmonic analysis emphasizing chord structure, functions, and relationships. Melodic and part-writing skills will be developed. Course includes a related survey of music history and form. Spring. Credit, 3 semester hours.

115. Theory II

Prerequisite: MUS 114.

A continuation of MUS 114. Fall. Credit, 3 semester hours.

193. Introduction to Ear Training

Prerequisite: MUS 115.

A beginning course in ear training techniques dealing with dictation from tapes and the use of other electronic media to improve listening skills. Spring. Credit, 1 semester hours.

209. Basic Musicianship

Restriction: Not open to music majors.

A course in the fundamentals of music. Fall, Spring. Credit, 3 semester hours.

214. Theory III

Prerequisite: MUS 115.

A study of advanced music theory using harmonic techniques of the late nineteenth and early twentieth centuries. Compositional skills will be developed. Course includes a related survey of music history and form. Spring. Credit, 3 semester hours.

215. Theory IV

Prerequisite: MUS 214.

A continuation of MUS 214 emphasizing later twentieth century techniques. Fall. Credit, 3 semester hours.

230. Introduction to Music Appreciation

Restriction: Not open to music majors.

The development of knowledge and understanding of music. Emphasis given to the forms of music found in different periods and the relationship of music to general cultural development. Fall, Spring. Credit, 3 semester hours.

235. A Study of Jazz

Open to music and non-music majors.

An introduction to jazz through a study of its origins, development, styles, and major innovative figures. Consideration is made of the idiom's historical and sociological contexts. Spring. Credit, 3 semester hours.

236. Improvisation I

Prerequisite: MUS 115 or permission of instructor.

A course in the development of improvisational skills through the study and application of theoretical and stylistic principles common to the jazz idiom. Fall, Spring. Credit, 2 semester hours.

237. Improvisation II

Prerequisite: MUS 236.

A continuation of MUS 236. Fall, Spring. Credit, 2 semester hours.

295. Music History and Literature I

A study of the development of music in non-Western cultures and in Western Civilization from Antiquity through the Renaissance. Such development will be viewed in light of its political, social, and general cultural setting. Fall. Credit, 3 semester hours.

296. Music History and Literature II

Prerequisite: MUS 295.

A study of the development of music in Western Civilization from the Baroque through Classical periods. Such development will be viewed in light of its political, social, and general cultural setting. Spring. Credit, 3 semester hours.

329. Conducting

A laboratory course which includes the study of choral and instrumental conducting techniques, choral and instrumental scores; with supervised conducting experience. Fall. Credit, 3 semester hours.

332. Form and Analysis

Prerequisite: MUS 215.

A study of various forms including large and small choral and instrumental works. Spring. Credit, 2 semester hours.

334. Orchestration and Arranging

Prerequisite: MUS 215.

A practical study of the fundamentals of scoring for individual instruments and ensembles. Spring. Credit, 2 semester hours.

346. Jazz Composition

Prerequisite: MUS 115 or equivalent as determined by Instructor.

A study of basic compositional techniques as applied to the jazz idiom. Original compositions will be written and orchestrated for various-sized jazz ensembles. Fall 1990 and Alternate years. Credit, 2 semester hours.

390. Church Music

A study of liturgy, music, materials, and methods appropriate for a church music director. Spring 1991 and Alternate years. Credit, 3 semester hours.

395. Music History and Literature III

Prerequisite: MUS 296.

A study of the development of music in Western Civilization from the Romantic period through the twentieth century. Such development will be viewed in light of its political, social, and general cultural setting. Fall. Credit, 3 semester hours.

404. Senior Recital

Offered to senior music majors participating in a half or full public recital. Credit is given by permission of the instructor and Department Chairman. Fall, Spring. Credit, 0-2 semester hours.

406. Jazz Pedagogy

Prerequisite: MUS 235.

A study of the administration, methods, and directing techniques pertinent to the teaching of Jazz and Commercial Music. Fall 1990 and Alternate years. Credit, 3 semester hours.

425. Piano Pedagogy

A course designed primarily for the keyboard specialist who is planning to teach piano. The course includes methods of teaching, appropriate materials, and techniques for all grade levels. Spring 1990 and Alternate years. Credit, 2 semester hours.

426. Practicum in Piano Teaching

Prerequisite: MUS 425 or permission of the instructor.

Beginning piano lessons offered to area public school students at a nominal fee, and taught by upper level college students. The course provides teaching experiences under the supervision of college instructors. Fall, Spring. Credit, 1-4 semester hours.

430. Music Literature

Prerequisites: MUS 295, 296, 395.

A study of music literature for large and small performing groups of all periods from a stylistic and development viewpoint. Fall. Credit, 3 semester hours.

432. Counterpoint

Prerequisite: MUS 215.

A study primarily of eighteenth-century contrapuntal techniques with written work in two and three part writing. Fall. Credit, 2 semester hours.

433. Internship in Music Merchandising

Restriction: Must be taken in final semester of study.

The internship will be performed off campus under the direction of a cooperating music sales and/or repair firm. Cooperating firm will work closely with Department of Music faculty in training and evaluation of the intern. Pass/Fail grading. Fall, Spring, 6 semester hours.

445. Music Composition I

Prerequisite: MUS 215 or permission of instructor.

A course designed to implement the student's study of theory. Original compositions will be written for instrumental and choral ensembles in the important music forms utilizing homophonic and polyphonic techniques. Fall. Credit, 2 semester hours.

490. Service Playing

Prerequisite: MUS 259 or the equivalent.

A study of the musical liturgy of the Catholic, Jewish, and Protestant services. Students should be free for Sunday morning church visitations. Spring. Credit, 1 semester hour.

491. Electronic Music

Prerequisite: MUS 114 or MUS 230 with permission of instructor.

A survey of electronic music with an emphasis on listening, aesthetic and philosophical concerns, necessary terminology, and composition/arranging for synthesizer. Various types of synthesis will be explored as well as MIDI systems and MIDI. Sequencing and transcription will be done using a Kurzweil synthesizer, Alesis drum, and comparable equipment in conjunction with an Apple Macintosh SE Computer and selected software programs. Spring (alternate years). Credit, 3 semester hours.

499. Independent Study in Music

Prerequisites: Music major, senior standing, and approval of Department Chairman.

Directed study and research in the student's major field of interest. Fall, Spring. Credit, 1-3 semester hours.

APPLIED MUSIC

Private study is offered in piano, organ, voice, and instruments of the band and orchestra. In each of these fields, the work will be adapted to the needs of the individual student. Courses in applied music are required of all music majors and may be elected with permission of the instructor by students not majoring in music.

1. Applied music lessons require a minimum of five practice hours weekly per credit hour.
2. Freshman, sophomore, and junior music majors must participate in student music recitals. Senior music majors must be in preparation for their senior recital.

159, 160; 259, 260; 359, 360; 459, 460. Applied Music (Courses must follow in sequence).

Private lessons are designed to build technical proficiency, repertoire, and awareness of vocal and instrumental problems. Fall, Spring. One half-hour lesson and one fifty-minute seminar bi-weekly. Credit, 1 semester hour. Two half-hour lessons and one fifty-minute seminar bi-weekly. Credit, 2 semester hours.

1 hour each semester	→	2 hours each semester
01. Private Voice		19. Private Voice
02. Private Piano		20. Private Piano
03. Private Organ		21. Private Organ
04. Private Flute		22. Private Flute
05. Private Oboe		23. Private Oboe
06. Private Clarinet		24. Private Clarinet
07. Private Bassoon		25. Private Bassoon
08. Private Saxophone		26. Private Saxophone
09. Private Trumpet		27. Private Trumpet
10. Private French Horn		28. Private French Horn
11. Private Trombone		29. Private Trombone
12. Private Baritone Horn		30. Private Baritone Horn
13. Private Tuba		31. Private Tuba
14. Private Percussion		32. Private Percussion
15. Private Violin		33. Private Violin
16. Private Viola		34. Private Viola
17. Private Violoncello		35. Private Violoncello
18. Private Bass Viol		36. Private Bass Viol
37. Private Guitar		38. Private Guitar

Non-keyboard music education majors will fulfill their course requirements in piano by enrolling in MUS 181, 182, 281, and 282 (Class Piano I-IV).

Inasmuch as a proficiency examination is not given to students prior to enrollment at Pembroke State University, each student is evaluated at the conclusion of MUS

259 (Applied Music). This evaluation will be based on the student's performing ability and overall progress in both music and academic courses.

A proficiency examination is also required by the Piano Division at the conclusion of the student's fourth semester of piano instruction. This examination consist of the following:

1. A prepared piano composition of sufficient difficulty,
2. All major and harmonic minor scales, two octaves, hands together,
3. Chord progressions involving primary and secondary triads, dominant-seventh chords, and secondary dominant-seventh chords,
4. Harmonization of melodies with chords cited in point 3 above, and
5. Transposition of simple melodies.

Students must pass these proficiency tests before proceeding to junior-level applied music courses.

All music majors are required to attend all recitals, concerts, and Performing Arts Season Programs which pertain to music.

Graduating seniors must present an individual or joint recital as a partial requirement for graduation. Approval of recital must be given by the music faculty at least three weeks prior to presentation. Students who complete their applied music studies should continue to take lessons for no credit until they have completed their senior recital requirements.

COURSES (MUS)

133. Class Piano I for Non-Music Majors

A concentrated group study of keyboard harmony and playing techniques, designed for the student with little or no musical background. Fall, Spring. Credit, 1 semester hour.

134. Class Piano II for Non-Music Majors

Prerequisite: MUS 133.

A continuation of MUS 133 (Class Piano I for Non-Music Majors). Fall, Spring. Credit, 1 semester hour.

171. Class Woodwind

A concentrated study in fundamentals and playing techniques for Flute, Oboe, Clarinet, Saxophone, and Bassoon. Spring. Credit, 1 semester hour.

172. Class Brass

A concentrated study in fundamentals and playing techniques for Trumpet, Cornet, French Horn, Trombone, Baritone Horn, and Tuba. Spring. Credit, 1 semester hour.

181. Class Piano I

A concentrated group study of keyboard harmony and playing techniques, designed for the music major. Spring. Credit, 1 semester hour.

182. Class Piano II

Prerequisite: MUS 181.

A continuation of MUS 181 (Class Piano I). Fall. Credit, 1 semester hour.

191. Class Voice

A concentrated group study of singing techniques and vocal development including sight-singing. Fall. Credit, 1 semester hour.

205. Class Strings

A concentrated study of fundamentals and playing techniques of the orchestral stringed instruments. Spring. Credit, 1 semester hour.

271. Class Percussion

A concentrated study in fundamentals and playing techniques of percussion instruments. Fall. Credit, 1 semester hour.

281. Class Piano III

Prerequisite: MUS 182.

A continuation of the non-keyboard major's pianistic development with emphasis on the practical aspects of reading, harmonization, and transposition. Spring. Credit, 1 semester hour.

282. Class Piano IV

Prerequisite: MUS 281.

A continuation of MUS 281 (Class Piano III). Fall. Credit, 1 semester hour.

Performing Organizations

100, 101; 200, 201; 300, 301; 401, 402. Concert Choir

The Concert Choir is open to all persons regardless of planned major with permission of the director. The Choir appears in public concerts throughout the year. Fall, Spring. Credit, 1 semester hour each.

107, 108; 207, 208; 307, 308; 407, 408. University Pep Band

The University Pep Band is open to all persons regardless of planned major with permission of the director. Public performances will be made at athletic events and whenever support of scheduled University activities is needed. Fall, Spring. Credit, 1 semester hour each.

110, 111; 210, 211; 310, 311; 410, 411. Music for Male Voices

Music for Male voices is open to all persons regardless of planned major with permission of the director. Public appearances are made throughout the year. Fall, Spring. Credit, 1 semester hour each.

141, 142; 241, 242; 341, 342; 441, 442. University Band

The University Band is open to all persons regardless of planned major with permission of the director. Public appearances are made in concerts. Fall, Spring. Credit, 1 semester hour each.

165, 166; 265, 266; 365, 366; 465, 466. Percussion Ensemble

Membership in the University Percussion Ensemble is open to all students by audition or permission of the director. A technical, stylistic, and aesthetic study of percussion ensemble literature through rehearsal and public performance. Fall, Spring. Credit, 1 semester hour each.

156, 157; 256, 257; 356, 357; 456, 457. University Jazz Choir

Membership in the University Jazz Choir is open to all students by audition. A study of vocal music trends, through the rehearsals and performance of pop, rock, progressive jazz, and other modern forms of music. Fall, Spring. Credit, 1 semester hour each.

162, 1163; 262, 263; 362, 363; 462, 463. University Jazz Ensemble

Membership in the University Jazz Ensemble is open to all students by audition. A study of technical, stylistic and aesthetic elements of jazz literature through rehearsals and public performance. Fall, Spring. Credit, 1 semester hour each.

335, 336; 435. Accompanying

Prerequisites: MUS 159-160 (02 or 20; 03 or 21) Private Piano/Organ and Instructor's approval.

A course designed to acquaint the keyboard major with the art and techniques of accompanying vocal and instrumental solo and ensemble literature. Fall, Spring. Credit, 1 semester hour each.

373, 374; 473, 474 Chamber Ensemble

The student will become familiar with representative literature for various small ensembles through rehearsal and performance. Fall, Spring. Credit, 1 semester hour each.

MUSIC EDUCATION (MUS)**224. Musical Experiences for Young Children**

Restriction: Not open to music majors.

A course designed to present methods and media of teaching classroom music. Fall, Spring. Credit, 3 semester hours.

299. Music in the Classroom, Grades 4-9

Restriction: Not open to music majors.

A course designed to present various methods and media of teaching classroom music, grades 4-6; and grades 6-9. It is assumed that students enrolling in this course have a knowledge of the fundamentals of music. Fall, Spring. Credit, 3 semester hours.

400. Music Education in the Secondary School (EDN 400)

A study of organization and procedures in general music classes and of vocal and instrumental performing groups in senior high school. Fall, Spring. Credit, 3 semester hours.

405. Music Education, Grades K-9

A study of organization and procedures used in general music classes for the elementary and junior high schools. Fall. Credit, 3 semester hours.

420. Public School Instrumental Music

A study of materials and methods used in building instrumental programs beginning in the elementary school and continuing through high school. Fall. Credit, 3 semester hours.

PHILOSOPHY AND RELIGION*Chairman: ROBERT K. GUSTAFSON*

JEFFERY L. GELLER
 G. LEA HARPER, JR.*
 MERRILL P. MILLER

J. THOMAS MORLEY
 P. ALBERT STUDDARD
 RAY K. SUTHERLAND

*On leave

Philosophy and religion have long been considered integral parts of the Liberal Arts Program. The courses presented here are planned to give the inquiring student an introduction to these broadening disciplines, the means whereby the significance of various disciplines can be interpreted, and a way of viewing, understanding and resolving some of the conflicts and issues in modern culture. These courses prepare the student to take an active part in community activities or in planning for graduate study.

A combined major in philosophy and religion of thirty-six hours is offered. There are two alternate concentrations. A minor of eighteen hours is also offered.

Students interested in majoring in philosophy and religion should discuss their interests with a faculty member in the Department. In order to help fulfill the aims of the individual student, courses are to be selected in conference with the student's departmental advisor.

Requirements for a Bachelor of Arts Degree in Philosophy and Religion

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirement*	50

Courses for the Major:

30 hours in the department, 18-24 in the appropriate core.

A student may choose a concentration of 21-24 hours in *Philosophy* or in *Religion*; 6-9 hours must be taken in the other area. Possible distributions are:

Philosophy Emphasis		
Philosophy	21	24
Religion	9	6

Religion Emphasis		
Religion	21	24
Philosophy	9	6

A. Required Core Major Courses**Philosophy Emphasis Core (18 hours)**

General Philosophy (6 hours): PHI 100 and PHI 101

Philosophy and Culture (3 hours): PHI 102, 204, or 205

History of Philosophy (3 hours): PHI 308, 309, or 400

Religion (6 hours): REL 130 and one other REL course*

OR

Religion Emphasis Core (24 hours)

Philosophy (6 hours): PHI 100 and one other PHI course*

General Religion (3 hours): REL 105, 106, or 130

Biblical Religion (3 hours): REL 222 or REL 336

Comparative Religion (3 hours): REL 213, 216, 218, or 315

Religious Thought (6 hours); choose two of four:

REL 209, REL 319, REL/PHI 202, REL 405

Religion and Values (3 hours): REL 214, 324, or 417

B. Electives in the Area of Emphasis: Philosophy or Religion

12 hours for Philosophy Emphasis

6 hours for Religion Emphasis

Electives	47
Total	128

*With advisor select 100 or 200 level course.

CERTIFICATION IN BIBLE

Teacher certification in Bible is obtainable. See the Chairman of the Department.

MINORS IN PHILOSOPHY AND RELIGION **18 Semester Hours**

The Department of Philosophy and Religion offers minors for students in other majors. Students majoring in Philosophy and Religion may also pursue a minor in the department under certain circumstances. There are a number of courses in the department which may be used in developing a minor. Students are encouraged to consult with a member of the department in planning a minor. Some of the possibilities would be in Biblical Studies, Non-Western Religions, Ethics, Church History, Religious Thought, and Philosophy.

Minor Areas and Required Courses in the Minor

The minor requires 18 semester hours. A large number of elective hours are possible in each minor. Minors must be approved by the Department.

- | | |
|----------------------------|---|
| 1. Philosophy Minor | Philosophy 100, Introduction to Philosophy, required, plus 15 elective hours. |
| 2. Religion Minor | Religion 130, Introduction to Religion, required, plus 15 elective hours. |
| 3. Philosophy and Religion | Philosophy 100 and Religion 130 required, plus 12 elective hours. |

COURSES PHILOSOPHY (PHI)

GENERAL

100. Introduction to Philosophy

A survey of the major issues and philosophers in the history of western philosophy. Fall, Spring. Credit, 3 semester hours.

102. Perspectives on Humanity (REL 102)

A study of the dominant understandings of man. Philosophical, religious, scientific, and literary sources are read and discussed. Fall, Spring. Credit, 3 semester hours.

HISTORY

211. American Philosophy

Prerequisite: PHI 100 or consent of instructor.

A study of the major figures in American philosophy, including Peirce, Royce, James, and Dewey. Alternate Spring. Credit, 3 semester hours.

308. The Great Philosophers: Ancient and Medieval

Prerequisite: PHI 100 or consent of instructor.

Studies in Plato, Aristotle, Augustine, and Aquinas. Alternate Fall. Credit, 3 semester hours.

309. The Great Philosophers: Modern and Contemporary

Prerequisite: PHI 100 or consent of instructor.

Studies in Descartes, Locke, Kant, Hegel, Nietzsche, and Wittgenstein. Alternate Spring. Credit, 3 semester hours.

400. Contemporary Philosophy

A study of phenomenology, existentialism, post-modernism, logical positivism, ordinary language philosophy, and conceptual analysis. Alternate Fall. Credit, 3 semester hours.

LOGIC

101. Introduction to Logic

The methods and principles of correct thinking. Emphasis on informal logic, the syllogism, and the fallacies. Fall, Spring. Credit, 3 semester hours.

201. Methods of Formal Logic

Prerequisite: PHI 101 or consent of instructor.

A study of modern symbolic logic. Emphasis on deductive proofs, quantification theory. Analysis of contemporary issues. Alternate Spring. Credit, 3 semester hours.

PHILOSOPHY AND CULTURE

202. Philosophy of Religion (REL 202)

An inquiry into the philosophical foundations of religion, the problems connected with belief and knowledge, faith and reason, the character and meanings of religious commitment. Alternate Spring. Credit, 3 semester hours.

204. Introduction to Ethics

A study of the criteria by which moral decisions are made and their applications to selected contemporary ethical issues. Spring. Credit, 3 semester hours.

205. Social and Political Philosophy

Studies of opposing philosophical views about humankind and the foundation of political and social life. Alternate Fall. Credit, 3 semester hours.

321. Philosophy of Science

Prerequisite: PHI 100 or consent of instructor.

A study of the problems and human implications of the mathematical, physical, biological, and social sciences leading to philosophical synthesis of the relation of the sciences to humankind. Alternate Spring. Credit, 3 semester hours.

322. Religion and Science (REL 322)

Prerequisite: PHI 100 or consent of instructor.

An examination of issues between science and religion and a consideration of a tradition in natural theology used to validate religious claims. Alternate Fall. Credit, 3 semester hours.

376. Medical Ethics (SOC 376)

An examination of the major ethical issues raised by recent medical developments, such as: abortion, psychosurgery, organ transplants, euthanasia, human experimentation and the health care. Alternate Fall. Credit, 3 semester hours.

377. Philosophy of Law

Prerequisite: PHI 100 or consent of instructor.

An examination of major ethical and philosophical issues concerning law and justice arising out of contemporary legal process, seeking an answer to the questions of the rights of the individual vis-a-vis the state. Alternate Spring. Credit, 3 semester hours.

423. Philosophy of Art and Beauty

A study of aesthetic values in nature, art, literature, music, and drama. Alternate Spring. Credit, 3 semester hours.

443. Business Ethics

An analysis and evaluation of ethical theories and their application to business. Possible topics include economic justice, social responsibility of business, corporate responsibility, self-regulation and government regulation, duties to the environment, ethics of advertising, the rights and duties of employees, manufacturers and consumers. As announced. Credit, 3 semester hours.

METAPHYSICS AND EPISTEMOLOGY**311. Theories of Knowledge and Reality**

Prerequisite: PHI 100 or consent of instructor.

A study of the major attempts to answer the fundamental questions about the self, the nature of reality, God, perception, and belief. Alternate Fall. Credit, 3 semester hours.

SPECIAL STUDIES IN PHILOSOPHY**409. Philosophy and Society Practicum**

Prerequisite: Consent of instructor.

An opportunity to observe the work of community agencies and institutions in order to discover, examine and analyze their basic philosophical assumptions. Courts of law, hospitals, and prisons would be examples of such institutions. Fall, Spring. Credit, 1-3 semester hours.

420. Seminar in Philosophy

Prerequisite: Junior standing or consent of instructor.

An examination of selected philosophers, movements, problems, or major ideas to be presented each term the course is presented. The objectives of the course may be met by directed research. The course may be repeated for credit up to and including 9 semester hours as long as there is no duplication of subject matter. Fall, Spring. Credit, 1-3 semester hours.

499. Independent Study in Philosophy

A student who wishes to enroll in 499, Independent Study, must: 1. be classified as a senior, 2. have a cumulative grade point average of 3.0 or better in the major area of study, 3. request independent study in the major area, and 4. submit a Request for Approval of Independent Study in triplicate to the Office of Academic Affairs. The form can be obtained from the Department Chairman. It must be approved by: 1. the professor supervising the student in independent study, 2. the Department Chairman, 3. the Dean of Admissions and Registration, and 4. the Office for Academic Affairs. The student may elect to work for one, two, or three semester hours of credit. Upon completion of the independent study, the student must prepare a type-written report of the study in triplicate. If the supervising professor feels it is appropriate, the report will be catalogued and permanently housed in the Library. Fall, Spring, Summer. Credit, 1-3 semester hours.

RELIGION (REL)**GENERAL (REL)****102. Perspectives on Humanity (PHI 102)**

Prerequisite: PHI 100 or REL 130.

A study of the dominant understandings of humanity. Philosophical, religious, scientific, and literary sources are read and discussed. Fall or Spring. Credit, 3 semester hours.

130. Introduction to Religion

This course seeks to define what religion is and to outline different approaches to the study of religion. The following questions are discussed: What are the roots of religious faith? What might a mature religious faith look like? Readings relating religion to the new generation are part of this study. Fall, Spring. Credit, 3 semester hours.

BIBLICAL**105. Survey of the Old Testament**

A study of the Covenants in Israel, of the rise and fall of the Hebrew nations under the judges and kings, of the religious development of the people as written in the literature of these periods. Fall, Spring. Credit, 3 semester hours.

106. Survey of the New Testament

A study of the origins and development of Christianity from Jesus Christ through the first century with emphasis on the writings of that age in correlation with the history of the Roman Empire. Fall, Spring. Credit, 3 semester hours.

203. The Pentateuch

Prerequisites: REL 130 or consent of instructor.

A study of the composition and structure of the Pentateuchal literature (the first five books of the Bible) and how these narratives and laws were perceived and applied throughout Israel's history. Alternate Fall. Credit, 3 semester hours.

222. Life and Letters of Paul

Prerequisites: REL 106 or REL 130 or consent of instructor.

A study of the life and world of Paul with special consideration of his preparation and mission, his style and subject matter. Spring. Credit, 3 semester hours.

227. Biblical Archaeology

A study of Old and New Testament world as based on the findings of archaeology. Emphasis upon modes of daily living and on location of ancient cities and urban areas. Alternate Spring. Credit, 3 semester hours.

317. Biblical Poetry

A study of poetic literature found in the Old Testament, the Apocrypha, and the New Testament. Alternate Fall. Credit, 3 semester hours.

318. Apocalyptic Literature

A study of apocalyptic literature of the Old and New Testaments with emphasis on the historical, religious and psychological backgrounds. Alternate Spring. Credit, 3 semester hours.

336. Life of Jesus

Prerequisites: REL 106 or REL 130 or consent of instructor.

A study of the life and teachings of Jesus as they are presented in the four gospels with emphasis upon world conditions in his day and the significance of teachings on Jesus' death and understanding of the resurrection. Fall. Credit, 3 semester hours.

337. Prophetic Literature of the Bible

Prerequisite: REL 130 or 105 or consent of instructor.

A review of the call, purpose, and work of the prophet. A study of the writings of Amos, Hosea, Jeremiah, Isaiah, etc. Alternate Fall. Credit, 3 semester hours.

400. Ancient Near East Texts

Prerequisite: REL 105 or 106 or consent of instructor.

A study of the ancient manuscripts from Egypt, Babylon, Greece, and Rome. A survey of such materials, as legal codes, calendars, rituals, hymns, wisdom literature, and letters from contemporary Biblical materials. As announced. Credit, 3 semester hours.

RELIGIOUS THOUGHT AND CULTURAL EXPRESSION

202. Philosophy of Religion (PHI 202)

An inquiry into the philosophical foundations of religion, the problems connected with belief and knowledge, faith and reason, and the character and meanings of religious commitment. Alternate Spring. Credit, 3 semester hours.

209. Religion in America

A study of distinctive themes and characteristics of religion in America. Topics such as Civil Religion, Religious Liberty and the Free Church, Revivalism, American Religious Movement, Missions, Black Religion, Indian traditions, and American religion in ferment will be considered. Fall. Credit, 3 semester hours.

214. Introduction to Religious Ethics

This course investigates how questions about morality can be approached within the Judeo-Christian tradition. The Old and New Testament teachings about ethics are examined along with the perspectives of Christian ethicists. Several ways of developing a basic framework for ethical decision-making are considered. Alternate Fall. Credit, 3 semester hours.

305. The Religious Dimensions of Modern Literature

Prerequisite: REL 130.

A study of the spiritual, moral, and psychological dimensions of selections from modern American and European literature. Works to be considered will be chosen from such writers as the following: Albert Camus, Herman Hesse, Kurt Vonnegut, Ken Keasey, C. S. Lewis, and Graham Greene. As announced. Credit, 3 semester hours.

310. Sects, Cults, and Religious Movements in America

A study of the origins, growth, beliefs, and practices of sects, cults, and religious movements in America. Alternate Fall. Credit, 3 semester hours.

319. Modern Religious Thought

Prerequisite: REL 130 or consent of instructor.

A study of selected trends and figures in modern religious thought. Alternate Fall or Spring. Credit, 3 semester hours.

322. Religion and Science (PHI 322)

Prerequisite: PHI 100 or consent of instructor.

An examination of issues between science and religion and a consideration of a tradition in natural theology used to validate religious claims. Alternate Fall. Credit, 3 semester hours.

324. Religious Ethics and Social Living

Prerequisite: REL 214 or consent of instructor.

An in-depth examination of ethical issues involved in contemporary social life (in business, education, law, medicine, military service) and of possible religious responses. The role of faith in decision-making about social issues will be analyzed. Films and guest speakers will provide material for discussion. Alternate Spring. Credit, 3 semester hours.

338. History of Christianity (HST 338)

A survey of the history of Christianity after Paul to the 20th century. Alternate Fall or Spring. Credit, 3 semester hours.

405. Modern Interpretations of Jesus

Prerequisite: REL 113 or 211 or consent of instructor.

A variety of recent, fresh interpretations are examined, including such different viewpoints as Hugh Schonfield's *The Passover Plot*, William Barclay's *The Life of Jesus for Everyman*, and Albert Cleage's *The Black Messiah*. Significant film portraits of Jesus (*The Parable*, *Jesus Christ Superstar*, and *Godspell*, for example) may also be viewed and analyzed. Alternate Spring. Credit, 3 semester hours.

417. Sociology of Religion (SOC 417)

Prerequisite: Consent of instructor.

Religious institutions and relationships in modern society. Alternate Fall. Credit, 3 semester hours.

COMPARATIVE RELIGIONS**213. American Indian Religious Traditions (AIS 213)**

This course is designed as an introduction to the contributions that Native American religious traditions make to the general study of religion. As such it is a survey of the religious traditions and practices of Native Americans. Spring. Credit, 3 semester hours.

216. Religions of the Far East

A study of the historical development and teachings of Hinduism, Buddhism, Confucianism and Shintoism. Offered in alternate years in sequence with REL 218 and 315. Credit, 3 semester hours.

218. Religions of the Near East

A study of the historical development and teachings of the religions of the Near East with emphasis on Islam, Zoroastrianism, and Baha'ism and including current Near Eastern Christians. Offered in alternate years in sequence with REL 216 and 315. Credit, 3 semester hours.

315. Judaism

An examination of the history, literature, and faith of Post-Exilic Judaism. Offered in alternate years in sequence with REL 216 and 218. Credit, 3 semester hours.

SPECIAL STUDIES IN RELIGION**309. Experiential Learning I**

Applied Religion-Philosophy and Society Practicum. An opportunity to observe and to participate in the work of community agencies relevant to the major. An example of an agency would be the Robeson County Church and Community Center. Fall, Spring. Credit, 3 semester hours.

409. Experiential Learning II

Applied Religion-Philosophy and Society Practicum.

Prerequisite: REL 309.

The description of REL 409 is essentially the same as for REL 309. The nature of the practicum usually will be different from that of REL 309. (Majors may use not more than three semester hours of credit earned in Experiential Learning I and II in meeting the major requirement.) Fall, Spring. Credit, 1-3 semester hours.

420. Special Studies in Religion

Prerequisite: Major or consent of instructor.

A study of selected religious problems, themes, issues or topics to be selected each term the course is presented. The objectives of the course can be satisfied by means of Directed Research. Possible topics are: Religion and Human Life, Myth, Symbol and Metaphor, Religion and Art, Hermeneutics, Contemporary Issues in Religion, Religious Dimensions in Education, and Counseling. Fall, Spring. Credit, 3 semester hours. This course may be repeated for credit up to and including 9 hours as long as there is no duplication of subject matter.

499. Independent Study

A student who wishes to enroll in REL 499, Independent Study, must: 1. be classified as a senior, 2. have a cumulative grade point average of 3.0 or better in the major area of study, 3. request independent study in the major area, and 4. submit a Request for Approval of Independent Study in triplicate to the Office for Academic Affairs. The form can be obtained from the Department Chairman responsible for the student's major area of study. It must be approved by: 1. the professor supervising the student in independent study, 2. the Department Chairman, 3. the Dean of Admissions and Registration, and 4. The Office for Academic Affairs. The student may elect to work for one, two, or three semester hours of credit. Upon completion of the independent study, the student must prepare a typewritten report of the study in triplicate. If the supervising professor feels it is appropriate, the report will be catalogued and permanently housed in the Library. Fall, spring. Credit, 1-3 semester hours.

PHYSICAL SCIENCE*Chairman: JOSE J. D'ARRUDA*

SUE BOWDEN
 PAUL A. FLOWERS
 LEONARD D. HOLMES
 JOHN E. REISSNER

HAROLD J. TEAGUE
 JOHN S. WALLINGFORD
 PETER WISH

The Physical Science Department currently offers a Bachelor of Science Degree with a major in Chemistry, including a Biomedical Concentration and a Concentration in Medical Technology. Students who have completed the program have been successful at entering professional schools, gaining employment in government and industry, as well as pursuing graduate studies in chemistry.

The Physical Science Department also offers a pre-engineering program. This program has been approved by the Subcommittee on Engineering programs at North Carolina A & T State University, North Carolina State University, and the University of North Carolina at Charlotte.

Coordination of the interdepartmental Bachelor of Science Degree program in Science Education as well as the course offerings in Science Education are also offered through the Physical Science Department. The Department also cooperates with the Education Department in coordinating a science concentration for the B.S. in Middle Grades Education (6-9).

Requirements for a Bachelor of Science Degree in Chemistry

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements*	50
Major Requirements	
CHM 100, 100L, 101, 101L; 226, 227; 300, 301; 327; 410; 498	32
Elective in Chemistry (above 299)	3
PHY 206, 207, and either	8
PHY 150, 151, or PHY 200, 201	
MAT 107, 108 or equivalent; 221, 222	8-14
Electives	<u>20-26</u>
Total	128

*Students who plan a major in Chemistry should request an advisor in the Physical Science Department and consult with that advisor before registering for Basic Studies courses.

Requirements for a Certification in Science for the B.S. Degree in Middle Grades Education (6-9)

PHS 110, 111, 108, 109, or PHY 150, 151, 206, 207	8
BIO 100, 100L, 103; CHM 100, 100L	11
GLY 115, 115L, 101; SCE 350	<u>10</u>
Total hrs.:	29

Requirements for the B.S. Degree in Science Education with a major in Chemistry or concentration in Physics (See Special Programs: Science Education)

Requirements and Course Sequence for a Bachelor of Science Degree in Chemistry with a Biomedical Concentration.

First Year					
Fall		Spring			
CHM 100&L	General Chemistry	4	CHM 101&L	General Chemistry	4
CMA 105	Composition I	3	CMA 106	Composition II	3
MAT 107	College Algebra	3	MAT 108	Plane Trigonometry	3
BIO 100&L	Principles of Biology	4	BIO 102	General Zoology	4
Basic Studies (Physical Edn)		1	Basic Studies (Physical Edn)		1
ORI 100	University Orientation	<u>1</u>			
		16			<u>15</u>

Second Year					
Fall		Spring			
CHM 226	Elementary Inorganic Chem.	4	CHM 227	Classical Methods of Analysis	4
PHY 150	College Physics	3	PHY 151	College Physics	3
PHY 206	Physics Lab	1	PHY 207	Physics Lab	1
BIO 211	Human Anat. Physiol.	4	BIO 212	Human Anat. Physiol.	4
MAT 210	Intro to Statistics	4	Basic Studies (Humanities)		3
		<u>16</u>	Basic Studies (Social Science)		<u>3</u>
		18			18

Third Year					
Fall		Spring			
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry	4
BIO 221	Comparative Anatomy	4	CHM 498	Literature Seminar	1
BIO 371	Cell Biology	4	BIO 315	Microbiology	4
Basic Studies (Humanities)		6	Basic Studies (Humanities)		6
		<u>18</u>	Advised Electives		<u>3</u>
		18			18

Fourth Year					
Fall		Spring			
CHM 311	Biochemistry	3	CHM 327	Instrumental Methods of Analysis	4
BIO 427	Principles of Genetics	4	Basic Studies (Social Science)		6
Basic Studies (Social Science)		3	Advised Electives		4
Basic Studies (Humanities)		3			
Advised Electives		<u>1</u>			<u>14</u>
		14			14

Academic Concentration in Physics

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Physical Science Department offers an Academic Concentration of 24 hours. This Academic Concentration is available to other students, regardless of major.

Required Courses

Course Number	Course Title	Semester Hours
PHY 150	College Physic I	3
PHY 206	Physic Lab	1
PHY 151	College Physic II	3
PHY 207	Physic Lab	1
PHY 218	Optics	3
PHY 256	Modern Physics	3
PHY 320	Electricity and Magnetism	3
PHY 321	Electricity and Magnetism	3
PHY 326	Heat and Temperature	3
PHY 448	Special Topic (Research Project)	1
		Total
		24

Requirements for a Bachelor of Science Degree in Chemistry with a Concentration in Medical Technology (See page 84 for a description of the program.)

First Year

Fall		Spring	
CHM 100&L General Chemistry	4	CHM 101&L General Chemistry	4
BIO 100&L Principles of Biology	4	BIO 102 General Zoology	4
MAT 107 College Algebra	3	Basic Studies (Humanities)	3
Basic Studies (Humanities)	3	Basic Studies (Social Science)	3
CMA 105 Composition I	3	CMA 106 Composition II	3
ORI 100 University Orientation	1		
	18		
			17

Second year

CHM 226	Elementary Inorganic Chem.	4	CHM 227	Classical Methods of Analysis	4
CHM 300	Organic Chemistry	4	CHM 301	Organic Chemistry	4
PHY 150	College Physics	3	PHY 151	College Physics	3
PHY 206	Physics Lab	1	PHY 207	Physics Lab	1
MAT 210	Intro. to Statistics	4		Basic Studies (Humanities)	3
		16			15

Third Year

	Fall		Spring	
CHM 311 Biochemistry	3	BIO 315 Microbiology	4	
BIO 371 Cell Biology	4	Basic Studies (Humanities)	3	
Basic Studies (Humanities)	6	Basic Studies (Social Science)	6	
Basic Studies (Social Science)	3	Basic Studies (Physical Edn)	1	
Basic Studies (Physical Edn)	<u>1</u>			
	17			14

Fourth Year

Clinical Training in Approved Hospital Program - 30 Semester Hours (See p. 84)

Requirements and Course Sequence for M.A.R.C. Training Program in Chemistry. For program description see p. 85.

First Year

	Fall		Spring	
CHM 100&L Gen. Chemistry w/lab	4	CHM 101&L Gen. Chemistry w/lab	4	
CMA 105 Composition I	3	CMA 106 Composition II	3	
MAT 107 College Algebra	3	MAT 108 Plane Trigonometry	3	
BIO 100&L Prin. of Biology w/lab	4	BIO 102 General Zoology w/lab	4	
Basic Studies (Physical Edn)	1	Basic Studies (Physical Edn)	1	
ORI 100 University Orientation	<u>1</u>	Basic Studies (Humanities)	<u>3</u>	
	16			18

Second Year

	Fall		Spring	
CHM 226 Elementary Inorganic Chem.	4	CHM 227	Classical Methods of Analysis w/lab	4
PHY 150 College Physics	3	PHY 151	College Physics	3
PHY 206 Physics Lab	1	PHY 207	Physics Lab	1
BIO 211 Human Anat. & Phys. w/lab	4	BIO 212	Human Anat. & Phys. w/lab	4
MAT 210 Intro. to Statistics w/lab	<u>4</u>		Basic Studies (Humanities)	3
	16		Basic Studies (Social Science)	3
				18

Third Year

	Fall		Spring	
CHM 300 Organic Chem. w/lab	4	CHM 301	Organic Chem. w/lab	4
BIO 221 Comp. Anatomy w/lab	4	CHM 498	Literature Seminar	1
BIO 371 Cell Biology w/lab	4	BIO 315	Microbiology w/lab	4
Basic Studies (Humanities)	3	Basic Studies (Humanities)		6
MAT 215 Calculus w/Applications	<u>4</u>		Advised Electives	<u>3</u>
	19			18

Fourth Year

		Fall			Spring	
CHM 311	Biochemistry	3	CHM 327	Instrumental Methods of Analysis	4	
BIO 427	Prin. of Genetics w/lab	4		Basic Studies (Social Science)	6	
Basic Studies (Social Science)		3		Advised Electives	4	
Basic Studies (Humanities)		3	CHM 411	Physical Chemistry with lab	4	
CHM 410	Physical Chemistry with lab	4				
			17			18

Pre-Engineering Program

In affiliation with North Carolina State University, The University of North Carolina at Charlotte, and North Carolina A&T State University, the Department of Physical Science is able to offer a pre-engineering program to selected students. Students selected into this program complete two years of a prescribed program at Pembroke State University. Upon successful completion of this program, these students can transfer into their junior year at one of the above mentioned engineering schools.

Admission to the program is through a formal interview with the Committee on Pre-engineering. Requests for interviews can be made any time with the department secretary. Additional information may be obtained from the chairman of the Physical Science Department.

Requirements for the Pre-Engineering Program**First Year**

		Fall			Spring	
CMA 105	Composition I	3	CMA 106	Composition II	3	
MAT 221	Calculus I	4	MAT 222	Calculus II	4	
CHM 100&L	General Chemistry	4	CHM 101&L	General Chemistry	4	
Humanities/Social Science		6	EGR 205	Engineering Graphics	2	
				Humanities/Social Science	3	
		17				16

Second Year

		Fall			Spring	
MAT 316	Intermed. Calculus	4	MAT 322	Differential Equat.	3	
PHY 200	University Physics I	4	PHY 201	University Phys. II	4	
CSC 200	Intro to Comp. Prog. FORTRAN	3	ECN 201	Prin. of Economics I	3	
or			EGR 201	Engineer. Dynamics	3	
CSC 250	Comp. Prog. & Algorithms (PASCAL)			Humanities/Social Science	3	
EGR 200	Engineering Statics	3				
Humanities/Social Science		3				
		17				16

PHYSICAL SCIENCE (PHS)**108. Physical Science Laboratory I**

Prerequisite: Enrollment in or completion of PHS 110 or equivalent.

Laboratory activities designed to parallel and reinforce the concepts presented in PHS 110. Fall/Spring. Credit, 1 semester hours.

109. Physical Science Laboratory II

Prerequisite: Enrollment in or completion of PHS 111 or equivalent.

Laboratory activities designed to parallel and reinforce the concepts presented in PHS 111. Fall/Spring. Credit, 1 semester hours.

110. Physical Science I

Prerequisite: None.

A general study of concepts in physical science, such as measurement, motion, force, work, mechanical energy, temperature and heat, atomic structure, the periodic table, elements, compounds, and mixtures. Fall/Spring. Credit, 3 semester hours.

111. Physical Science II

Prerequisite: PHS 110 or equivalent.

A general study of concepts in physical science such as: electricity, magnetism, electromagnetics, radiation, nuclear energy, the universe, the solar system, the earth's crust, minerals, rocks, and plate tectonics. Fall/Spring. 3 semester hours.

116. Exploring Man's Energy Choices

A survey of the evolution of the energy crisis. The various energy alternatives are considered with regard to the technological, environmental, and economic problems associated with each. Fall. Credit, 3 semester hours.

156. Astronomy

A study of all matter and energy in the universe, emphasizing the concentration of this matter and energy in evolving bodies such as planets, stars, and galaxies. Topics include the sun, solar systems, stars, black holes, pulsars, supernova and quasars. Fall, Spring. Credit, 3 semester hours.

CHEMISTRY (CHM)**100. General Chemistry I**

Composition, structure, and properties of matter, including stoichiometry, atomic and molecular structure and theory, and chemical periodicity. Fall, Spring. Credit, 3 semester hours.

100L. General Chemistry Laboratory I

Laboratory exercises correlated with topics of Chemistry 100. Fall, Spring. Credit, 1 semester hour.

Note: Laboratory is required for presentation of General Chemistry as a professional requirement or prerequisite.

101. General Chemistry II

Prerequisite: Chemistry 100

Chemical reactivity, including properties of solutions, kinetics and equilibrium, acids and bases, and electrochemistry. Basic chemical principles applied to organic, inorganic, and nuclear systems. Fall, Spring. Credit, 3 semester hours.

101L. General Chemistry Laboratory II

Laboratory exercises correlated with topics of Chemistry 101. Fall, Spring. Credit, 1 semester hour.

Note: Laboratory is required for presentation of General Chemistry as a professional requirement or prerequisite.

109. Chemistry, the Modern World, and Man

A survey course in chemistry designed for the non-science major. Study of the relationship of chemistry to man and the world which surrounds him. Special emphasis will be given to contemporary problems of energy, environment, health, and nutrition. Fall, Spring. Credit, 3 semester hours.

210, 211. Organic and Biological Chemistry

Prerequisite: CHM 101.

Molecular structure, including stereochemistry, reactivity, and the theoretical basis for correlation between the two. Different types of reaction mechanisms are presented using as examples molecules of biological importance. A laboratory is included. Fall. Credit, 4 semester hours.

226. Elementary Inorganic Chemistry

Prerequisite: CHM 101.

Fundamental principles of inorganic chemistry, including coordination chemistry, will be examined through a study of the descriptive chemistry of metallic and nonmetallic elements. Laboratories will involve the preparation and characterization of technologically important chemical substances. Fall. Credit, 4 semester hours.

227. Classical Methods of Analysis

Prerequisite: CHM 101.

The principles and techniques of classical qualitative and quantitative methods of analysis will be examined. Laboratories will involve separation and identification of common inorganic ions by traditional "wet" methods and quantitative analysis of substances by gravimetric and volumetric techniques. Spring. Credit, 4 semester hours.

300, 301. Organic Chemistry

Prerequisite: CHM 101.

The aliphatic and aromatic carbon compounds with special emphasis on structure, major reactions, and reaction mechanisms. A laboratory is included. Fall. Credit, 4 semester hours.

302. Introduction to Spectroscopy and Structure Determination

Prerequisite: CHM 301 or concurrently.

A study of major spectroscopic methods, including NMR, IR, UV/Visible, and Mass Spectrometry, and how data from these sources are used to determine molecular structure. Laboratory projects are included, as announced. Credit, 3 semester hours.

310. Biochemical Structure and Mechanism

Prerequisite: CHM 101.

Atomic and molecular structure, as applied to organic and biological molecules. The concept of resonance and modern concepts of reaction mechanisms are introduced and are applied to biological reactions. As announced. Credit, 3 semester hours.

311. Biochemistry

Prerequisite: CHM 301 or 310.

A study of the chemical constitution of living matter and the biochemical build-up and breakdown of molecules in living organisms. As announced. Credit, 3 semester hours.

311L. Experimental Methods in Biochemistry

Prerequisite: Enrollment in, or completion of CHM 311.

A student laboratory which deals with the experimental methods used in biochemistry. As announced. Credit, 1 semester hour.

327. Instrumental Methods of Analysis

Prerequisites: CHM 227, PHY 151 or equivalent.

The principles and techniques of instrumental methods for the separation, identification, and quantitative analysis of substances will be examined. Laboratories will give students hands-on experience with modern spectroscopic, electroanalytical, and chromatographic instrumentation. As announced. Credit, 4 semester hours.

370. Science Communications and Research Methods

Prerequisite: Junior or Senior standing in Biology or Chemistry, and consent of instructor. A review of the current literature in a variety of biomedical journals. The format for presentation of material and the research methods employed will be examined. Designed so that students can obtain an understanding of how research is done and how it is reported. As announced. Credit, 1 semester hour.

410, 411. Physical Chemistry

Prerequisite: 16 hrs. of college chemistry, mathematics through calculus, and consent of instructor.

A theoretical and mathematical treatment of the fundamental laws and theories underlying the science of chemistry. As announced. Credit, 3 semester hours each.

448. Special Topics in Chemistry

Prerequisite: Consent of the Instructor.

Advanced class study in selected areas of chemistry. As announced. Credit, 1 - 3 semester hours.

495. Seminar

Prerequisite: Junior or Senior standing in Biology or Chemistry and consent of instructor. A seminar series in which current biomedical research projects are presented and discussed. Most seminars will be presented by visiting scientists recruited from research laboratories in industry and universities. MARC trainees will be required to present a seminar in their senior year. Fall/Spring, 1-4 semester hours.

498. Literature Seminar

Prerequisite: Junior or Senior chemistry major.

Introduction to methodology of researching topics in the chemical literature. Spring, 1 semester hour.

499. Independent Study in Chemistry

Prerequisite: Consent of Department Chairman.

Individual research in advanced areas of chemistry. Offered for chemistry majors only. Fall, Spring. Credit, 1 to 3 semester hours.

PHYSICS (PHY)**100. Elementary Physics I**

In an essentially descriptive fashion this course described the nature of: motion and its causes, energy, momentum, theory of relativity, heat and temperature, pressure, sound, and others. Fall. Credit, 3 semester hours.

101. Elementary Physics II

Prerequisite: It is helpful (but not required) to have taken PHY 100 as background for this course.

In the fashion of PHY 101, this course describes the nature of electricity and magnetism, light and optical devices, and the atom (what we now know and what we believe we can't know). Spring. Credit, 3 semester hours.

115. Electronics (A Survey)

The limitations of electronics are not known. We live in an "electronic age." This course is a survey of the entire field of electricity and electronics from why rubbing a balloon can cause it to stick to the ceiling (apparently defying gravity), through how radio and TV work, to the modern electronics of the calculator and computer. As announced. Credit, 3 semester hours.

150, 151. College Physics I, II

Prerequisite: MAT 107 or equivalent for 150; 150 for 151.

A treatment of the subject matter of general physics (listed, in part, under 100, 101) at a level of thoroughness expected in such curricula as pre-med, biochemistry, etc. (for pre-engineering or physics curricula see 200, 201). Fall, Spring. Credit, 4 semester hours each with laboratory (206, 207).

200, 201. University Physics I, II

Prerequisite: MAT 221 or equivalent (may be taken concurrently) for 200; 200 for 201. The most thorough treatment of the subject matter of general physics (listed, in part, under 100, 101). A beginning course expected in such curricula as preengineering, physics, etc. As announced. Credit, 3 semester hours.

206, 207. Physics Laboratory

Prerequisite: For 206, enrollment in, or completion of PHY 100, 150, or 100. For 207, enrollment in or completion of PHY 101, 151, or 201.

A student laboratory to complement and reinforce the physical relationships discussed in the lecture classes. Fall, Spring. Credit, 1 semester hour each.

218. Optics

Prerequisite: PHY 101, 151, or 201.

Optical instruments such as cameras, telescopes, and many more are discussed. Their uses, limitations, and how they work are all included. Experimentation comprises half of the course. As announced. Credit, 3 semester hours.

256. Modern Physics

Prerequisite: PHY 101, 151, or 201.

A survey of the physics of the 20th century. The fundamental ideas of the theory of relativity and quantum mechanics via the anomalies that led to their formulation. As announced. Credit, 3 semester hours.

320, 321. Electricity and Magnetism

Prerequisite: PHY 101, 151, or 201 and working knowledge of calculus for 320; 320 for 321.

Electrostatics, magnetic and electric fields, capacitance, inductance, electric machinery and meters. As announced. Credit, 3 semester hours.

326. Heat and Temperature

Prerequisite: PHY 100, 150, or 200 and a working knowledge of calculus.

Heat and its effects. Heat engines and their limitations. The concepts of entropy and other facets of thermodynamics. As announced. Credit, 3 semester hours.

336. Mathematical Physics

Prerequisite: A working knowledge of calculus.

Three dimensional vector and tensor calculus. Green's and Stoke's theorems. Vector spaces, linear independence, orthogonality. Hermitian and unitary operators. Eigenvalues and eigenvectors of operators, functions spaces as vector spaces, and elements of the theory of distributions. As announced. Credit, 3 semester hours.

356. Modern Electronics

Prerequisites: PHY 115 or 151 or 201 or equivalent.

An introduction to Analog and Digital Electronics. Problems and techniques of interfacing with laboratory instruments and computers. Spring. Credit, 3 semester hours.

448. Special Topics

Prerequisites: PHY 101, 151, or 201; MAT 222.

Individual study either of subject matter in existing courses (in more depth) or of subjects for which there is no present formal course. As announced. Credit, 1-3 semester hours.

ENGINEERING (EGR)**200. Engineering Statics**

Prerequisites: PHY 200, MAT 221.

The study of engineering statics using vector calculus. Basic concepts, forces, and equilibrium analysis, distributed forces, centroids, moments of inertia, virtual work, applications to machines, structures, and systems. Fall. Credit, 3 semester hours.

201. Engineering Dynamics

Prerequisite: EGR 100.

The study of engineering dynamics using vector calculus. Equations of motion, kinematics, kinetics of mass points and systems of mass points, kinetics, and kinematics of rigid bodies. Spring. Credit, 3 semester hours.

205. Engineering Graphics

Introduction to graphical representation and engineering drawing. Instrument and freehand drawing of structures and machine parts, including isometric, oblique, and perspective drawings, sectional and auxiliary views, and orthographic projections. (Laboratory) Spring. Credit, 2 semester hours.

SCIENCE EDUCATION (SCE)**300. Early Experiences for Prospective Science Teachers**

An introduction to the teaching of science for prospective secondary science teachers. A minimum of 16 clock hours of directed classroom observations and planned participation in actual classroom settings and 8 clock hours of seminar class instruction in the teaching area. Fall, Spring. Credit, 1 semester hour.

301. Practicum for Secondary Science Teacher

Prerequisites: SCE 300 and at least 16 semester hours of science in area of concentration. Two two-hour laboratories per week, practical experiences in setting up laboratories in the life and physical sciences. The student will be assigned to members of the participating science departments as laboratory assistants. Fall, Spring. Credit, 2 semester hours.

350. The Teaching of Science in the Middle Grades (6-9)

Prerequisite: Junior Standing.

Purposes, methods, materials, and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials appropriate for teaching science in the middle grades. Fall, Spring. Credit, 3 semester hours.

400. Teaching Science in the Secondary School

Prerequisites: SCE 300, 301.

Purposes, methods, materials and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials. Spring, Credit, 3 semester hours.

POLITICAL SCIENCE*Chairman: ROBERT O. SCHNEIDER*

MICHAEL R. HAWTHORNE
 EMMETT N. LOMBARD

ELIZABETH L. NORMANDY
 FRANK J. TRAPP

Political Science is the systematic study of politics. In its broadest sense politics includes the decision-making and decision-enforcing processes concerned with the use of valued resources for any group that makes and enforces rules for its members. In this department the emphasis is upon the parts of these processes involving the government.

The Department of Political Science seeks to follow the aims of the liberal arts tradition. It also seeks to provide political science students with an educational background which will prepare them for a wide range of career opportunities and which will be desired by prospective employers from the fields of Law, Foreign Service, Public Administration, Journalism, "Practical Politics," and Teaching.

Requirements for a Bachelor of Arts Degree in Political Science

	Sem. Hrs.
Orientation Requirements	1
Basic Studies Requirements*	50
Major Requirements	
PLS 100, Introduction to Political Science	3
PLS 101, Introduction to American National Government	3
At least one course from each of the following areas:	3
Theory, Philosophy and Methodology 213, 303, 333, or 418	
American Government and Politics 201, 202, 215, 301, 304, 305, 306, 310, 312, 317, or 402	3
Public Administration 210, 302, 319, 320, or 331	3
Comparative Government and Politics 200, 275, 321, 370, or 420	3
International Politics 251, 354, 380, 430, or 452	3
And fifteen additional hours of Political Science	15
Electives	41
Total	128

**Requirements for a Bachelor of Arts Degree in Political Science:
Pre-Law Major**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	21
PLS 100, 101, 303, 310, 312, 317, 333	

One course from among:		
Comparative Government and Politics		3
200, 275, 321, 370, or 420		
and		
International Politics		
251, 355, 380, 430, or 452		
and		
Three additional courses in Political Science		9
Electives**		41
Suggested:		
CMA 101, 225, 302; PHI 100, 101		
	Total	128

**Requirements for a Bachelor of Arts Degree in Political Science:
Public Administration Major**

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	30
PLS 100, 101, 201 or 202, 210, 302, 319, 320, 333, 360, 361	
One course from among:	
International Politics	3
251, 355, 380, 430, or 452	
and	
One additional course in Political Science	3
Electives	41
Strongly Recommended:	
ECN 201, 202; PLS 331	
Suggested:	
BUS 227, 228;	
	Total
	128

*Students who plan a major in Political Science should consult with the Department Chairman prior to registering for Basic Studies courses.

**Chosen in consultation with the pre-law advisor.

Requirements for a Minor in Public Administration:

Required Courses	Sem. Hrs.
PLS 100 Introduction to Political Science	
or	
PLS 101 Introduction to American National Government	3
PLS 201 American State Government	
or	
PLS 202 Local Government in the United States	3
PLS 210 Introduction to Public Administration	3
PLS 302 Administration of Municipal Government	3
PLS 319 Public Policy and Analysis	3
PLS 320 Comparative Public Administration	3
Three Additional hours of Political Science	3
	Total
	21

The department believes that there are many students majoring in Business Administration and Economics, Education, Sociology, and other disciplines who may someday seek employment in some administrative position in the public sector. While not wishing to major in political science, these students would benefit from a structured set of courses outlining the operations and problems of the administrator of a public agency. Even if the student never seeks employment as public administrator, the department believes that exposure to these courses within the public administration minor will help the student to perform their private sector administrative roles more capably, especially since the growth of government has created numerous points of contact between public sector and private sector administrators.

Requirements for a Minor in Legal Studies:

Required Courses	Sem. Hrs.
PLS 100 Introduction to Political Science or PLS 101 Introduction to American National Government	3
PLS 303 Political Thought	3
PLS 310 Constitutional Law	3
PLS 312 Law of Criminal Procedure	3
PLS 317 Judicial Process and Behavior	3
Three additional hours of Political Science	<u>3</u>
	Total 18

The minor in legal studies is designed to accommodate the student who is majoring in some other discipline and also quite interested in going to law school and pursuing a legal career. This allows the student to concentrate in a particular area of expertise within which he or she plans to specialize once the student begins to practice law. Rather than require the student to major in political science, the minor in Legal Studies gives the student more flexibility to pursue other interests while receiving a sound preparation for law school study.

Requirements for a Minor in Political Science:

Required Courses	Sem. Hrs.
PLS 100 Introduction to Political Science or PLS 101 Introduction to American National Government	3
PLS 303 Political Thought	3
Twelve additional hours of Political Science	<u>12</u>
	Total 18

This third minor is less structured than the other minors because the department wishes to accommodate the student who enjoys political science, but who does not wish to pursue a major because of other career or vocational goals. With the exception of a required course in Political Thought the department wishes to encourage the student to take an "eclectic" approach and enroll in courses that discuss topics of interest to the student so that the individual needs of the student will be better met.

Academic Concentration in Political Science

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Political Science Department offers an Academic Concentration of 27 hours. This Academic Concentration is available to other students, regardless of major.

Required Courses

Course Number	Course Title	Semester Hours
PLS 100	Intro. to Political Science	3
PLS 101	Intro. to American National Government	3

Choose seven of the following:

PLS 303	Political Thought	3
PLS 210	Intro. to Public Administration	3
PLS 200	Intro. to Comparative Politics	3
PLS 251	Intro. to World Politics	3
PLS 215	North Carolina Politics and Government	3
PLS 317	Judicial Process and Behavior	3
PLS 319	Public Policy and Analysis	3
PLS 304	Legislative Process	3
PLS 306	The American Presidency	3
		Total
		27

The Department of Political Science participates in the interdepartmental minor in the World Studies Program. For further details on this minor see **Special Programs** section.

The Department of Political Science participates in the interdepartmental minor in the program in Personnel and Organizational Leadership. For further details on this minor see **Special Programs** section.

COURSES (PLS)

INTRODUCTION

100. Introduction to Political Science

A study of general political science concepts, definitions, and approaches within the framework of discussions of how individuals and groups may be able to utilize more effectively the political, social, and economic systems with which they come into contact. Fall, Spring. Credit, 3 semester hours.

101. Introduction to American National Government

An introductory study of: (1) the basic concepts of political science, (2) the brief history of the basic principles of the Constitution, (3) the structure, functions of and the relations between the legislative, executive and judicial branches of the national government, and (4) the relations between the national and state governments. Fall, Spring. Credit, 3 semester hours.

THEORY, PHILOSOPHY, AND METHODOLOGY

213. Contemporary Political Ideologies

A study of twentieth century ideologies, including liberalism, conservatism, nazism, fascism, communism, democratic socialism, and more recent doctrines such as third world nationalism, minority liberation, women's liberation, and the new left. As announced. Credit, 3 semester hours.

303. Political Thought

Prerequisite: PLS 100 or 101.

A study of the historic and conceptual background of political thought from the classical through contemporary political thinkers. Emphasis is placed on the application of ideas and concepts learned to current political and personal situations so as to enable the student to function better and more thoughtfully as an individual and as a member of various social and political systems. Spring, odd-numbered years. Credit, 3 semester hours.

333. Introduction to Theory and Methodology

Prerequisite: PLS 100 or 101.

This course concerns basic concepts of political science and teaches the student how to do research, use the library, evaluate the research of others, draw a graph, construct a table, and use a few simple statistical techniques. Fall, even years. Credit, 3 semester hours.

393. Census Data for Social Sciences and Business

Prerequisite: MAT 105 or 107 or permission of instructor.

An introduction to accessing, analyzing, and interpreting census data. Emphasis is placed on using census data for research in social science, marketing, and related fields. As announced. Credit, 1 semester hour.

418. Special Topics in Theory, Philosophy and Methodology

Prerequisite: PLS 100 or 101.

An in-depth study of a selected topic from the field of political philosophy or methodology. Fall, odd-numbered years. Credit, 3 semester hours.

DIRECTED RESEARCH AND INDEPENDENT STUDY

398. Directed Research in Political Science I

Prerequisite: PLS 100 or 101.

Written acceptance by a supervising faculty member is required, based on the student's written proposal. A copy of the proposal together with the faculty member's acceptance must be submitted for approval to the Department Chairman prior to registration. Fall or Spring. Credit, 1-3 semester hours.

399. Directed Research in Political Science II

Prerequisite: PLS 100 or 101.

Written acceptance by a supervising faculty member is required, based on the student's written proposal. A copy of the proposal together with the faculty member's acceptance must be submitted for approval to the Department Chairman prior to registration. Fall or Spring. Credit, 1-3 semester hours.

499. Independent Study in Political Science

Directed reading and research under the guidance of the instructor in a specific area or problem in political science. Scheduled only for senior political science majors with the approval of the Chairman of the Department. Fall or Spring. Credit, 1-3 semester hours.

AMERICAN GOVERNMENT AND POLITICS**201. American State Government**

Prerequisite: PLS 100 or 101.

An examination of the setting, institutions, politics, and policies of state governments in the United States. Fall, alternate odd-numbered years, beginning 1989. Credit, 3 semester hours.

202. Local Government in the United States

Prerequisite: PLS 100 or 101.

An examination of the setting, institutions, politics, and policies of local government in the United States. Fall, alternate odd-numbered years, beginning 1989. Credit, 3 semester hours.

215. North Carolina Politics and Government

Prerequisite: PLS 100 or 101.

A study of the North Carolina political system: its environment, the forces and elements making up the system, the policies of that system, and the impact of the policies. Fall or Spring. Credit, 3 semester hours.

301. Political Parties and Interest Groups in the United States

Prerequisite: PLS 100 or 101.

The history, development, organization, functions and purposes of the major parties and interest groups, and the role played by them in the policy-making and election of the government. Fall, alternate even-numbered years, beginning 1990. Credit, 3 semester hours.

304. Legislative Process in the United States

Prerequisite: PLS 100 or 101.

A study of: (1) the distribution of the legislative power in the three branches of the government, (2) the structure and functions of the legislature, (3) the actual process of legislation both in the national and state governments, its defects and remedies, and (4) the attainment of responsible and responsive government. Important legislative problems will be selected and will serve as a basis for analyzing the legislative process. Spring, alternate even-numbered years, beginning 1990. Credit, 3 semester hours.

305. Public Opinion and Elections in the American Political System

Prerequisite: PLS 100 or 101.

A study of the nature of public opinion, campaigns, and elections and their functions in the American political system. Fall, alternate even-numbered years, beginning 1988. Credit, 3 semester hours.

306. The American Presidency

Prerequisite: PLS 100 or 101.

The central role of the American presidency in the political process and the relationship among the presidency and the other branches of government. Spring, alternate even-numbered years, beginning 1988. Credit, 3 semester hours.

310. Constitutional Law

Prerequisite: PLS 100 or 101.

A study of: (1) the federal system, especially the relations between the national government and the States, (2) the jurisdiction of the federal courts and (3) individual rights. Spring. Credit, 3 semester hours.

312. Law of Criminal Procedure

Prerequisite: PLS 100.

Constitutional limitations on police activity. Due process; right to counsel; arrest, search and seizure; electronic eavesdropping; confessions; and the scope of exclusionary rules. Fall. Credit, 3 semester hours.

317. Judicial Process and Behavior

Prerequisite: PLS 100 or 101.

An examination of the role of judges, lawyers, and jurors in the decision-making process as influenced by their recruitment and socialization of the political frame-work in which they operate, and the various factors, ideology, attitudes, and values that influence their decisions. Fall, even-numbered years. Credit, 3 semester hours.

402. Selected Topics in American Government

Prerequisite: PLS 100 or 101.

A study of selected problems, either in theory or in practice, in American government, with readings, discussions and papers on these problems. Fall or Spring. Credit, 3 semester hours.

405. Washington Legislative Internship

Prerequisite: PLS 304.

This internship presents an opportunity for a student to get a deeper understanding of the legislative process by participating in the activities of a U.S. Congressman's office. The intern will spend a semester in Washington, D.C. working in the office of a Congressman and will be responsible for performing assigned research on legislative issues as well as working on constituency problems. Students will be assigned reading material on the legislative process and will be required to submit various papers in order to fulfill the internship requirements. The internship is limited to Political Science majors. No more than six credit hours may be applied to fulfill the thirty-six hour requirement for a major in political science nor is the student eligible to enroll in any other departmental internship program (PLS 360, 361, or 364). Scheduled for political science majors with the approval of the Chairman of the Department. Credit, 6-12 semester hours.

PUBLIC ADMINISTRATION**210. Introduction to Public Administration**

Prerequisite: PLS 100 or 101.

An introductory study of general principles and problems of administrative organization in government: federal, state, and local. The role, relationships, processes, and control of governmental institutions, in the political context, with special emphasis on the American experience, will be surveyed. Spring, even-numbered years. Credit, 3 semester hours.

302. Administration of Municipal Government in the United States

Prerequisite: PLS 100 or 101.

A study of American municipal government in its setting and development, power and politics, management process, administration of services, social and economic problems, planning, fiscal problems and practices, intergovernmental relations, and emerging trends. Spring. Credit, 3 semester hours.

319. Public Policy and Analysis

Prerequisite: PLS 100 or 101.

This course seeks to explore both the causes and consequence of public policy, i.e., both policy determination and policy impacts. The former is concerned with political, economic, social, environmental or other factors which are hypothesized to be political determinants. The latter is concerned with social, economic, political, or other conditions which are hypothesized to be policy impacts. Fall, even-numbered years. Credit, 3 semester hours.

320. Comparative Public Administration

Prerequisite: PLS 100 or 101.

Examination and analysis are made of the administrative systems of foreign governments of selected Western and non-Western countries; attention is given to practices applicable to administration in the United States. Spring, even years. Credit, 3 semester hours.

331. Public Finance (ECN 330)

Prerequisite: ECN 201, 202.

A study of revenue and expenditure on all government levels in the United States. Spring, odd numbered years. Credit, 3 semester hours.

360. Introductory Internship in Public Administration

Prerequisite: PLS 100 or 101.

The acquisition of public management experience through an arranged internship in a government or community agency or enterprise, under the instruction and supervision of the major professor and a designated official of the agency or enterprise involved. Fall or Spring. Credit, 3 semester hours.

361. Advanced Internship in Public Administration

Prerequisite: PLS 360.

This is a continuation of the internship of PLS 360. It continues the acquisition of public management experience through an arranged internship in a government or community agency or enterprise, under the instruction and supervision of the major professor and a designated official of the agency or enterprise involved. Fall or Spring. Credit, 3 semester hours.

364. Practicum in Public Administration

Restriction: Open to majors in Political Science only.

Prerequisite: PLS 100 or 101, and consent of instructor and departmental chairman.

This course provides students with management experience of at least 80 working days with regular wages provided by a government or community agency. Working under the supervision of a professor and a designated official of the agency, students produce an extended report exploring a concern of the agency. As announced. Credit, 6 semester hours.

COMPARATIVE GOVERNMENT AND POLITICS

200. Introduction to Comparative Politics

Prerequisite: PLS 100 or 101.

This course introduces the subject matter of comparative politics by examining different types of political systems such as a West European parliamentary democracy, a third world authoritarian state, and a totalitarian communist system. Fall. Credit, 3 semester hours.

275. Politics in the Developing World

Prerequisite: PLS 100 or 101.

This course introduces the student to the politics of underdeveloped countries. Special emphasis is placed on the study of nationalism, revolution, economic development, and political modernization. Spring, odd-numbered years. Credit, 3 semester hours.

321. Soviet Government

Prerequisite: PLS 100 or 101.

A study of the government that emerged after the Revolution of 1917, emphasizing the subsequent power struggle and gradual development of the U.S.S.R. Fall or Spring. Credit, 3 semester hours.

370. Comparative Political Area Studies

Prerequisite: PLS 100 or 101.

An examination of the cultural and political ideas, institutions and forms of government in a specific geographic region. Far Eastern, Middle Eastern, African, Latin American, West European, and East European governments are possible areas for examination in this course. The area of study and specific focus will rotate. As announced. Credit, 3 semester hours.

420. Special Topics in Comparative Politics

Prerequisite: PLS 100 or 101.

An in-depth study of a selected topic from the field of comparative politics. Spring and Fall, odd-numbered years. Credit, 3 semester hours.

INTERNATIONAL ORGANIZATION, RELATIONS, AND LAW**251. Introduction to World Politics (WLS 251)**

Prerequisite: PLS 100 or 101.

An analysis of politics and relations among nations: (1) sovereignty, (2) domestic jurisdiction, (3) status quo, (4) colonialism, (5) balance of power, (6) alliance and neutrality, (7) peaceful adjustment of disputes, (8) disarmament, (9) standards of international conduct, (10) economic development and political advancement of the developing countries. Fall. Credit, 3 semester hours.

355. International Relations Area Studies

Prerequisite: PLS 100 or 101.

An analysis of the foreign policies of a specific geographic region involved presently or potentially in global conflicts, with special attention to the role of the United States in the area. Possible areas for examination in this course include Africa, Latin America, the Middle East, the Far East, Western Europe, or the Soviet Union and Eastern Europe. As announced. Credit, 3 semester hours.

380. The Politics of World Order

Prerequisite: PLS 100 or 101.

A study of the general approaches to world order with special attention given to the management of that order through the workings of international law and organizations. Spring, even-numbered years. Credit, 3 semester hours.

430. Special Topics in International Politics

Prerequisite: PLS 100 or 101.

An in-depth study of a selected topic in the field of international politics. As announced. Credit, 3 semester hours.

452. Problems in American Foreign Policy

Prerequisite: PLS 100 or 101.

A study of major issues and problems in American foreign policy, including tradition and other constant factors of policy making, and with major emphasis on the post-World War II period. Spring. Credit, 3 semester hours.

PSYCHOLOGY

Chairman: PAUL W. KILLIAN, JR.

RAY VON BEATTY

PATRICK A. CABE

KATHRYN K. RILEIGH

MICHAEL STRATIL

M. ROSCOE THORNTWHAITE

People throughout history have been intrigued by the question, "What is human nature?" Psychology's approach to this topic is aimed at understanding basic patterns of thought, emotion, and behavior. It uses a variety of scientific methods, including interviews, case studies, field observations, neurophysiological recordings, and controlled experimentation. Psychology's fund of knowledge has grown very rapidly over the past century. We now have a much clearer understanding of how people learn, how childhood experiences affect adult personality, how people influence one another during normal social relations, how to treat emotional and behavioral problems, how the brain's biochemistry influences behavior, and many other significant topics.

The Department's courses strive to blend general conclusions with practical application. Many topics are presented through role playing, discussions promoting personal involvement, and other experiential techniques. In addition to teaching established knowledge, the Department attempts to convey the excitement, controversy, and spirit of exploration that pervade the field of psychology today.

The Department offers a bachelor of science degree in psychology. This program is organized in a way that allows students to focus on one of three broad themes: general psychology, mental health, and industrial/organizational psychology. The Department also offers minors in General Psychology, Mental Health, and Personnel and Organizational Leadership.

These avenues of study prepare students for a variety of occupational paths. Many graduates build careers in human services, administration, entrepreneurship, and other fields of practical endeavor. Others enter graduate school and pursue careers as professional psychologists.

MAJOR PROGRAMS

Requirements for a Bachelor of Science Degree in Psychology:

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements*	50
Major Requirements	40-46
Electives	31-37
Total	128

*Students who plan a major in psychology should consult with the department Chairman prior to registering for Basic Studies courses.

A. General Psychology Option

This option offers a traditional approach to psychology, with an emphasis on experimental research. It is recommended for students intending to pursue graduate training or those desiring a broad liberal arts education with a minimum of specialization. Requires 40 hours of coursework.

Psychological Foundations (7 courses, for 22 hours)

- 101 Introductory Psychology
- 205 Developmental Psychology
- 210 Psychological Research (4 hours)
- 215 Psychology of Learning
- 216 Introduction to Social Psychology
- 304 History and Systems of Psychology
- 360 Abnormal Psychology

Theory (select 1 course; 3 hours)

- 375 Theories of Personality
- 415 Seminar in Human Motivation

Specialty Courses (select 3 courses; 9 hours)

- 312 Cognitive Processes
- 340 Issues in Personality
- 401 Physiological Psychology
- 417 Introduction to Clinical Psychology or 418 Introduction to Counseling Psychology
- 422 Seminar on Psycholinguistics: Psychology of Language

Additional Methodology (select 1 course; 3 hours)

- 208 Psychological Statistics (strongly recommended for students planning to attend graduate school)
- 380 Supervised Research in Social Psychology
- 399 Directed Study
- 403 Introduction to Psychological Testing

Elective (select 1 course; 3 hours)

- Any psychology course except those completed above

B. Mental Health Option

This option focuses on the nature of psychological health and disorder, current intervention procedures, and the research techniques for studying these phenomena. It is recommended for students planning careers that directly or indirectly involve the mental health system and for students intending to pursue graduate training in clinical psychology, counseling psychology, and various fields of social service. It does not provide any type of professional certification. Requires 40 hours of coursework.

Psychological Foundations (13 hours)

- PSY 101 Introductory Psychology
- PSY 210 Psychological Research (4 hours)
- PSY 215 Psychology of Learning
- PSY 304 History and Systems of Psychology

Mental Health Core (15 hours)

- PSY 360 Abnormal Psychology
PSY 375 Personality Theories
PSY 403 Introduction to Psychological Testing
PSY 417 Introduction to Clinical Psychology
PSY 418 Introduction to Counseling Psychology

Specialty Courses (select 2 courses, for 6 hours)

- PSY 220 Behavior Modification
PSY 225 Psychology of Stress
PSY 340 Issues in Personality
PSY 414 Practicum: Mental Health Services Experience

Electives (6 hours)

Any psychology courses except those completed above. Students are strongly encouraged to complete PSY 208 (Psychological Statistics).

C. Industrial/Organizational Psychology Option

This option focuses on the application of psychological principles to the industrial/organizational setting. It combines a core psychology curriculum with a number of carefully selected courses from related disciplines. It is recommended for the student desiring a liberal arts approach to human relations. Requires 46 hours of coursework, with at least 15 hours in 300- or 400-level psychology courses.

Psychological Foundations (11 courses, for 34 hours)

- PSY 101 Introduction to Psychology
PSY 210 Psychological Research (4 hours)
PSY 216 Introduction to Social Psychology
PSY 225 Psychology of Stress
PSY 270 Industrial/Organizational Psychology
PSY 316 Psychology of Leadership
PSY 317 Psychology of Social Communication
PSY 215 Psychology of Learning, or PSY 312 Cognitive Processes
PSY 125 Human Potential, PSY 340 Issues in Personality, or PSY 360 Abnormal Psychology
PSY 304 History and Systems of Psychology, PSY 415 Seminar in Human Motivation
PSY 220 Behavior Modification, PSY 417 Clinical Psychology, or PSY 418 Counseling Psychology

Management/Administration (select 2 courses, for 6 hours)

- PLS 210 Introduction to Public Administration
BUS 307 Principles of Management
BUS 308 Organizational Theory and Behavior (prerequisite: BUS 307)

Communication Skills (select 2 courses, for 6 hours)

- CMA 303 Business Communication
CMA 350 Organizational Communications
CMA 358 Discussion and Debate
CMA 370 Advanced Composition

Note: Students selecting this option are strongly encouraged to use their university electives to complete PSY 208 (Psychological Statistics). Other suggested electives are:

BUS 408	Personnel Management
CMA210	Introduction to Mass Communications
CMA100	Introduction to Computer Science
ECN 201	Principles of Economics I
PHI 443	Business Ethics
PLS 302	Administration of Municipal Government in the United States
PLS 319	Public Policy and Analysis
PLS 320	Comparative Public Administration
PLS 333	Introduction to Theory and Methodology
PLS 360	Introduction to Internship in Public Administration
PSY 380	Supervised Research in Social Psychology
PSY 399	Directed Study
PSY 403	Introduction to Psychological Testing
PSY 470	Practicum in Organizational Psychology
SOC 309	Social Problems in Modern Society
SOC 328	Inequality and Change
SOC 337	Military Sociology
SWK403	Supervision in Human Services Organizations

MINOR PROGRAMS

Requirements for a Minor in Psychology

The minor in psychology consists of 18 unduplicated semester hours (of which at least 6 hours must be taken at the 300-level or above) as follows:

1 course from:

PSY 103	Psychology of Parenthood
PSY 205	Developmental Psychology

1 course from:

PSY 215	Psychology of Learning
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1 course from:

PSY 216	Introduction to Social Psychology
PSY 316	Psychology of Leadership
PSY 317	Psychology of Social Communication

1 course from:

PSY 125	Human Potential
PSY 340	Issues in Personality
PSY 375	Personality Theories
PSY 417	Introduction to Clinical Psychology
PSY 418	Introduction to Counseling Psychology

2 elective courses (6 hours) in the department.

Requirements for a Minor in Mental Health

This program is designed to provide academic background and practical experience in mental health work. It should be useful to persons expecting to interact with the mental health system as an administrator or paraprofessional. Additionally, persons planning to attend graduate programs in the human services or sciences may find that the minor provides a useful foundation. The minor does not provide any type of professional certification.

The minor in mental health consists of 18 semester hours as follows:

Required Core

- PSY 360 Abnormal Psychology
- PSY 403 Introduction to Psychological Testing
- PSY 414 Practicum: Mental Health Service Experience

2 elective course chosen from:

- PSY 220 Behavior Modification
- PSY 225 Psychology of Stress
- PSY 417 Introduction to Clinical Psychology
- PSY 418 Introduction to Counseling Psychology

1 elective course chosen from:

- PSY 215 Psychology of Learning
- PSY 340 Issues in Personality
- PSY 375 Personality Theories
- PSY 415 Seminar in Human Motivation

Requirements for a Minor in Personnel and Organizational Leadership

The Department participates in the interdisciplinary minors in Applied Gerontology and in Personnel and Organizational Leadership. For further details on these minors, see **Special Programs** section.

Requirements for an Academic Concentration in Psychology

An academic concentration in psychology consists of 25 semester hours. Six hours of this 25 may also be used to meet Basic Studies or other requirements.

Psychological Foundations (22 hours)

- PSY 101 Introductory Psychology
- PSY 205 Developmental Psychology or
 - EDN 306 Psychology of Early Childhood or
 - EDN 307 Human Growth and Development: 4 - 6 or
 - EDN 308 Adolescent Psychology or
 - EDN 309 Human Growth and Development Middle Grades
- PSY 210 Psychological Research (4 hours)
- PSY 215 Psychology of Learning
- PSY 216 Introduction to Social Psychology
- PSY 304 History and Systems of Psychology
- PSY 360 Abnormal Psychology

Theory (select 1 course, 3 hours)

- PSY 312 Cognitive Processes
PSY 375 Personality Theories
PSY 403 Introduction to Psychological Testing
PSY 415 Seminar in Human Motivation

COURSES (PSY)**101. Introductory Psychology**

A survey of major areas of psychology, with emphasis on issues, concepts and terminology needed for more advanced courses. Fall, Spring and Summer. Credit, 3 semester hours.

103. Psychology of Parenthood

The application of psychological concepts by parents to the understanding and modification of child behavior at all stages of development. Spring. Credit, 3 semester hours.

125. Human Potential

A survey of current knowledge about the potential for optimal human development. Classroom activities include lecture, discussion, and participation in growth exercises. Fall. Credit, 3 semester hours.

205. Developmental Psychology

Prerequisite: PSY 101.

The study of the stages and processes involved in all areas of development of the human organism from conception through adolescence. Fall. Credit, 3 semester hours.

208. Psychological Statistics

Prerequisite: MAT 105 (or higher).

An introduction to simple descriptive and inferential statistics which are frequently used by psychologists. The selection and application of procedures appropriate to specific types of psychological research and the standardization of psychological tests will be emphasized. Fall. Credit, 3 semester hours.

210. Psychological Research

Prerequisite: PSY 208 strongly recommended.

An introduction to research methods used in psychology. Experimental research will be emphasized, but survey and correlational research will also be included. Three lectures and a two-hour lab weekly. Spring. Credit, 4 semester hours.

215. Psychology of Learning

Prerequisite: PSY 101.

An introductory survey of the major areas in the psychology of learning. Classical conditioning, operant conditioning, verbal learning, and memory will be included. Fall. Credit, 3 semester hours.

216. Introduction to Social Psychology

Prerequisite: PSY 101 or SOC 201.

An introduction to the concepts, principles, theories, and research of social psychology. Social psychology is the study of social influence processes. Topics such as attitude change, perception of other people, interpersonal attraction, aggression, altruism, prejudice, and group dynamics will be covered. Fall. Credit, 3 semester hours.

220. Behavior Modification

Prerequisite: PSY 215.

Introduction to the principles and practice of behavior modification. Application in institutional and clinical settings will be discussed, exploring such topics as classroom behavioral problems, the control of smoking, weight loss, phobias, hypertension, and headaches. Alternate Spring. Credit, 3 semester hours.

225. Psychology of Stress

The course will cover the psychological and physiological dynamics of stress and techniques of managing stress: nutrition, exercise, meditation, biofeedback conditioning, hypnosis, and psychotherapy. Spring. Credit, 3 semester hours.

250. Psychology of Sex Differences

An evaluation of research and attitudes about male/female differences from a social psychological perspective. Topics include sex differences in: intellectual and physical abilities, personality traits, biological/genetic factors, sexual/reproductive behaviors, achievement, psychological disorders, interpersonal power, and communication styles. As announced. Credit, 3 semester hours.

270. Industrial/Organizational Psychology

Prerequisite: PSY 101.

Applies psychological principles to the study of industrial and organizational effectiveness. Covers theory, research, and practical applications related to such topics as work motivation, the communicative process, and the selection, testing, and training of employees. Spring. Credit, 3 semester hours.

304. History and Systems of Psychology

Prerequisites: Any three PSY courses.

A study of the development of psychology as a discipline from ancient Greece to modern times. Present issues in psychology are traced to their origins. Spring. Credit, 3 semester hours.

305. Psychology of Adult Development and Aging

Prerequisite: PSY 101.

The course is designed to survey, topographically and chronologically, the aging period from middle adulthood to older adulthood. Changes in biological, intellectual, memory, learning, personality, and social processes will be addressed. Fall, alternate years. Credit, 3 semester hours.

312. Cognitive Processes

Prerequisite: PSY 215.

An examination of human memory and thinking within the context of the human information processing model. Alternate Spring. Credit, 3 semester hours.

316. Psychology of Leadership

Prerequisite: PSY 101.

Examination of the psychological processes in small group leadership. Topics will include self-assertion, decision-making, persuasion, and compliance. Emphasis on theory, research, and acquisition of practical leadership skills. Spring. Credit, 3 semester hours.

317. Psychology of Social Communication

Prerequisite: PSY 101.

Study of the psychological processes in everyday social communication. Examination of the relationship between misunderstanding, hostility, egocentricity, psychological defenses, and the frequent conflict between verbal and nonverbal cues. Emphasis on applying psychological theory to the solution of specific communication problems in the student's own life. Spring. Credit, 3 semester hours.

340. Introduction to Personality

Prerequisite: PSY 101.

An introduction to the psychological study of personality. Emphasis on research findings and their interpretation. Alternate years. Credit, 3 semester hours.

355. Sensation and Perception

Prerequisite: PSY 101.

An examination of the structures and processes involved in perception. Visual and auditory perception will be emphasized. As announced. Credit, 3 semester hours.

360. Abnormal Psychology

Prerequisite: PSY 101.

A study of the history, theories, and causes of mental disorders. Various types of disorders are examined along with their typical symptoms. Uses of psychological testing and clinical interviews are studied. Spring. Credit, 3 semester hours.

375. Personality Theories

Prerequisites: Any three PSY courses.

Various theoretical approaches to the study of personality. Spring. Credit, 3 semester hours.

380. Supervised Research in Social Psychology

Direct experience in the collection, statistical analysis, and technical reporting of data of social behavior. Close collaboration between student and instructor. As announced. Credit, 3 semester hours.

397. Current Topics Seminar

Comprehensive treatment of selected topics in psychology. Content will vary, depending on interests of participants. Offered on demand (see Department Chairman). Credit, 3-9 semester hours in multiples of 3.

399. Directed Study

Prerequisite: A written plan of the project should be approved by the Department Chairman no later than two weeks prior to registration.

Directed readings and/or research, leading to the preparation of a paper or research report. Exclusively for psychology majors. Amount of credit given will be agreed upon prior to registration and will depend upon the magnitude of the project chosen. Fall, Spring. Credit, 1-6 semester hours.

401. Physiological Psychology

Prerequisite: 15 hours of psychology or biology.

Study of psychological processes from a biological perspective. Covers both normal and abnormal functioning, with emphasis on basic neuroanatomy, basic biochemistry, psychoactive drugs, behavior genetics, and research methods. Spring, alternate years. Credit, 3 semester hours.

403. Introduction to Psychological Testing

Prerequisite: PSY 208 recommended.

An intensive introduction to basic psychometric concepts including types of test scores, score transformation techniques, validity, reliability, and norms. Practical application of psychometric concepts will be experienced through the administration, evaluation, and interpretation of psychological tests. Fall. Credit, 3 semester hours.

414. Practicum: Mental Health Service Experience

Prerequisites: Permission of Department Head and PSY 101, 360, and 417 or 418. Interested students should have written plan of work approved by the Chairman no later than two weeks prior to registration. Supervised experience in one of the five major areas of a comprehensive mental health center (inpatient, outpatient, consultation/education, partial hospitalization, and emergency service). Fall, Spring. Credit, 3 semester hours.

415. Seminar in Human Motivation

Prerequisites: 3 courses in PSY or permission of instructor and junior standing. Integration of diverse theoretical perspectives into a coherent framework for analyzing human motivation, with a selective survey of contemporary research. Some practice in assessing adult motivation through interviews. Active oral participation is required.

417. Introduction to Clinical Psychology

Prerequisites: PSY 360 and 375.

A survey of the clinical field with special emphasis on people-helping skills and institutions. Includes trips to institutions and practicum work with individuals. Fall. Credit, 3 semester hours.

418. Introduction to Counseling Psychology

Prerequisites: PSY 215 and at least one of: PSY 220, 360, 375.

An introductory survey of counseling with emphasis on basic skills and knowledge of techniques. The course is both didactic (theories of counseling) and experiential (role-playing in class). Opportunities for classroom discussion, professional feedback about skills and potential, and video-taping. Spring. Credit, 3 semester hours.

422. Seminar on Psycholinguistics: Psychology of Language

Prerequisites: Any two PSY courses.

A study of theories and research on the learning and usage of language. Includes speech perception, child language development, word meanings, deafness, and other related topics. Alternate Fall. Credit, 3 semester hours.

470. Practicum in Organizational Psychology

Prerequisite: Permission of Departmental Chairman.

Interested students should have a written plan of work approved by the Chairman no later than two weeks prior to registration. Supervised experience in one of the following areas: personnel psychology, job design/analysis, employee health/safety, work motivation and organizational communication. Fall, Spring. Credit, 3 semester hours.

SOCIOLOGY, SOCIAL WORK, AND CRIMINAL JUSTICE

Chairman: FRANK SCHMALLEGER

JOHN BOWMAN**

MARTHA L. ELLISON

NORMAN LAYNE

THOMAS H. MCANINCH

THOMAS H. MARSHALL

DAVID PATTERSON*

JOHN RIMBERG

CHERYL WAITES

CHARTER WITH
GARY WILLIS

+ Director of Social Work Program

*Coordinator of Criminal Justice

**Coordinator of Sociology

The purpose of the Department of Sociology, Social Work, and Criminal Justice is to provide students with classroom and real-life experiences designed to stimulate critical thought about man's social environment and to prepare students for meaningful participation in society.

The department offers both a major and minor in Sociology, a major in Social Work, and a major in Criminal Justice. In addition, minors are available in Criminal Justice, Medical Sociology and Social Welfare.

The department places emphasis on applied sociology and social work. Many courses within the department allow students to test classroom learning through real-life experience (field-work placement) in the community. Such experiences enhance students' employment opportunities following graduation.

The Department of Sociology, Social Work, and Criminal Justice strongly recommends that prospective majors, minors and those developing a specialty concentration consult the Department chairman.

Requirements for a Bachelor of Arts Degree in Sociology

*Sociology majors who elect to study a second course in mathematics are advised to select Introduction to Statistics, MAT 210. Although a course in statistics is recommended, it is not required.

Academic Concentration in Sociology

For students seeking a baccalaureate degree in Elementary Education, Middle Grades Education, Special Education, Business Education, or Physical Education, the Department of Sociology, Social Work, and Criminal Justice offers an Academic Concentration of 24 hours. This Academic Concentration is available to other students, regardless of major.

Required Courses

Course Number	Course Title	Semester Hours
SOC 201	Sociology Concepts	3
SOC 209	Social Problems	3
SOC 220	Computer & Society	3
SOC 280	Health and Society	3
SOC 303	The Family	3
	Also, any three courses with SOC prefix	9
	Total	24

SOCIAL WORK

The Social Work Program is fully accredited by the Council on Social Work Education. The primary objective of the Social Work Program is preparation for entry level professional social work practice. Courses are offered in social work practice, social welfare policies and services, human behavior and social environment, and understanding social research. An integral and required part of the Program is successful completion of a minimum of 400 clock hours of supervised field work. The Social Work Program *may not* accept past social work practice experience for academic credit.

Although new students may declare social work as a major, CMA 105 and 106, and 50% of basic studies courses must be completed prior to enrolling in Introduction to Social Work. Students are expected to adhere to all program and course prerequisites. In order to declare a social work major, students are required to: 1) be interviewed by the Director of the Social Work Program; 2) demonstrate and maintain a minimum GPA of 2.0 within the Basic Studies requirements; 3) adhere to the moral and ethical standards outlined in *The PSU Student Handbook*. If a student is rejected from declaring the Social Work Major by the Program Director, the decision may be appealed to the Social Work Program Advisory Committee. Upon admission to the Social Work Program, students are given a copy of *The Student Social Work Handbook*. Students need to read the *Handbook* for information regarding curriculum policy. All students who declare social work as their major are encouraged to join the Campus Association of Social Workers, attend majors' meetings, and meet regularly with their advisors.

Approximately five percent of the Social Work Majors pursue graduate study. In order to acquire a letter of recommendation for graduate school from the faculty, the student must successfully complete a statistics course (usually SOC 210 or PSY 208).

The Social Work Program has been authorized to certify social work graduates in School Social Work. School Social Work Certification is a prerequisite for employment

in the school system. This rule is enforced by the North Carolina Department of Public Instruction. School Social Work is NOT recognized as an area of teaching specialization but rather as a field of social work practice.

Requirements for a Bachelor of Science Degree in Social Work

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Major Requirements	
a. SWK 250, 345, 348, 380, 385, 391, 445, 448, 459, 470, 471	35
b. Select 12 hours from: PSY 208 or SOC 210, SOC 303, 341, 375, 377; SWK 350, 354, 383, 384, 403	12
Electives	<u>31</u>
Total	128

Model Curriculum Guide: Social Work Major

Freshman Year

Fall

- CMA 105
- BIO 100
- MAT 105
- PSY 101
- Fine Arts
- ORI 100 (1 hr.)

Total hours: 16

Spring

- CMA 106
- GGY 206
- HST 126, 127, or 201
- CMA 203, 205, or 206
- PHS 110
- PED (1 hr.)

Total hours: 16

Sophomore Year

- SOC 201 CMA 100
- PHI 101
- BIO 103
- SWK 250
- PED (1 hr.)

Total hours: 16

- PLS 100
- AIS 210
- SWK 345
- Elective
- Elective

Total hours: 15

Junior Year

- SWK 380
- SWK 383
- SWK 354
- SWK 384
- Humanities Electives

Total hours: 17

- SWK 385
- SWK 348
- SWK 391
- SWK 459
- Electives

Total hours: 17

Senior Year

- SWK 470***
- SWK 448*
- SOC 375**
- SWK 350
- Electives

Total hours: 16

- SWK 471***
- SWK 445*
- SOC 303
- PED 180
- Electives

Total hours: 16

(*denotes a 2 hour course)
(**denotes a 4 hour course)
(***denotes a 5 hour course)

It is recommended that Social Work Majors declare a Minor.

CRIMINAL JUSTICE*

The purpose of the Criminal Justice Program is to provide students with a thorough understanding of the social organization and administration of the criminal justice system. Courses are offered in theories of crime and delinquency, the police, the courts, corrections, and administration. A justice agency internship is required.

Requirements for a Bachelor of Arts Degree in Sociology with a Major in Criminal Justice

	Sem. Hrs.
Orientation Requirement	1
Basic Studies Requirements	50
Criminal Justice Core (all courses required)	19
1. CRJ 200 Intro. to Criminal Justice	
2. CRJ 240 Criminology (SOC 240)	
3. CRJ 300 Criminal Law	
4. CRJ 400 Criminal Procedure	
5. CRJ 470 Senior Seminar in Criminal Justice	
6. CRJ 480 Internship in Criminal Justice (4 hrs.)	
Criminal Justice Electives (from the following)	15
1. CRJ 210 Law Enforcement	
2. CRJ 230 Corrections	
3. CRJ 310 Introduction to Security	
4. CRJ 315 Criminal Investigation	
5. CRJ 318 Police Administration	
6. CRJ 320 The Courts	
7. CRJ 330 Probation and Parole	
8. CRJ 341 Juvenile Delinquency (SOC 341)	
9. CRJ 410 Organized Crime	
10. CRJ 415 Police Community Relations	
11. CRJ 450 Special Topics in Criminal Justice	
12. CRJ 499 Independent Study in Criminal Justice	
Transfer students must earn at least 15 hours in criminal justice course work from Pembroke State University.	
A Minor is required from the following: Sociology, Social Work, Psychology, Mental Health, Personnel and Organizational Leadership, Political Science, Legal Studies, or Public Administration. (A minor will not be required of those seeking a second major.)	18-21
Electives	22-25
Total	128

*The Criminal Justice program at Pembroke State University is accredited by the North Carolina Criminal Justice Education and Training Standards Commission.

MEDICAL SOCIOLOGY

Medical Sociologists study the nature of health and illness, the role of the sick person, the various healing roles, and the organization of health services. The Department of Sociology, Social Work and Criminal Justice does not offer a special

degree or program in Medical Sociology, but Sociology majors whose primary interest is in the health institution can select Medical Sociology courses as they work on completing the major. Courses are offered on health status issues such as drug use, preventive health practices, and medical ethics, and on health system issues.

Each student interested in Medical Sociology should see the advisor regularly in order to plan an individualized program of study. Any students interested in pursuing graduate studies in Public Health Administration, Hospital Administration, or Health Education should see the Medical Sociology faculty advisor for a suggested program of study.

MINORS

All departmental minors require at least 18 semester hours. Six of these hours may be used to satisfy other major and minor requirements, as well as Basic Studies requirements.

Requirements for a Minor in Sociology

SOC 201 Sociological Concepts	3
SOC 209 Social Problems	3
12 hours of SOC lecture courses (or SOC 398, 399)	<u>12</u>
Total	18

Requirements for a Minor in Criminal Justice

CRJ 200 Introduction to Criminal Justice	3
CRJ 240 Introduction to Criminology	3
12 hours of CRJ lecture courses (or CRJ 499)	<u>12</u>
Total	18

Requirements for a Minor in Medical Sociology

SOC 270 or BIO 300 Medical Terminology/Vocabulary	2
SOC 280 Health and Society	3
13 hours chosen from the following:	
SOC 210, 304, 373, 375, 376, 377, 391, 398, 399; SWK 384; HED 311; BUS 308; PSY 216; BIO 103	13

Requirements for a Minor in Social Welfare

Select 18 semester hours following the unduplicated rule from the courses listed below:

Course Title	Course Number	Sem. Hrs.
Introduction to Social Work	SWK 250	3
Human Behavior & Social Environment I	SWK 345	3
Social Welfare Policies and Programs I	SWK 348	3
Correctional Social Work	SWK 350	3
School Social Work	SWK 354	3
Child Welfare Services	SWK 383	3
Social Gerontology	SWK 384	3
Understanding Social Research	SWK 391	3
Supervision in Human Services Organizations	SWK 403	3
Minority Groups	SWK 459	3

COURSES (SOC)**I. BASIC STUDIES****101. Introduction to Modern Sociology**

Recent developments in sociology, anthropology and social psychology. Social science and public issues. Fall, Spring. Credit, 3 semester hours.

105. Introduction to Cultural Anthropology (AIS 105)

A survey of the various processes and conditions involved in cultural growth and change, including the relation between technology, religion, art, literature, language, and personality development. Emphasis is placed on human ecology and contracts between cultures. Fall. Credit, 3 semester hours.

201. Sociological Concepts

Human society. Relationships of society to personality and culture. Development of group life and social environments. Required of sociology majors. Fall, Spring. Credit, 3 semester hours.

II. GENERAL SOCIOLOGY**Modern Society****209. Social Problems in Modern Society**

Social costs of organized social life. Problems in families, work groups, local communities, and modern nations. Sociology of mental disorders, suicide, drug abuse, alcoholism, etc. Poverty and violence. Fall, Spring, Credit, 3 semester hours.

240. Introduction to Criminology (CRJ 240)

Historical and contemporary theories of criminal behavior are examined, with emphasis on rehabilitation of offenders. Fall, Spring. Credit, 3 semester hours.

304. Social Aspects of Human Sexuality

Human sexuality is analyzed as a social, psychological, and biological process. Included in a discussion of sexual values and behaviors and their relationship to social structure. As announced. Credit, 3 semester hours.

312. Sports in Contemporary Society (PED 312)

A study of sports from a sociocultural perspective, including the relationship of sports to other social institutions, stratification within sports, and changing conceptions of leisure and sports. The popular literature on sports will be examined. Spring of 1991 and alternate years. Credit, 3 semester hours.

328. Inequality and Change

Differences in social class, status and power will be examined in the U.S. and other societies. Social movements, opportunities, and barriers relevant to social mobility and change will be considered. As announced. Credit, 3 semester hours.

329. Society and the Environment (GGY 329)

A study of the social aspects of the natural environment. Environmental factors influencing societal development, and ideological conceptions which relate people to their surroundings are explored. The interdependence of culture and physical resources is stressed. Credit, 3 semester hours.

341. Juvenile Delinquency (CRJ 341)

Prerequisite: SOC 240.

A study of alienated youth and anti-social conduct, to include the role of social pressures and peer groups in gang behavior. Treatment programs, community counter-measures, and the prevention of delinquency are stressed. Spring. Credit, 3 semester hours.

367. Social Deviance

Prerequisite: SOC 240.

Theories of deviant behavior are examined, with selected examples of deviance reviewed in detail. Fall. Credit, 3 semester hours.

368. Law and Society

An introduction to the development of law and legal systems, the social organization of law, and the function and role of law in society. Of particular concern will be the relationship between the values and culture of a society and the laws which it adopts. Spring. Credit, 3 semester hours.

396. The Sociology of Everyday Life

A study of qualitative approaches to the subject matter of sociology. Symbolic interaction, phenomenology and linguistics are applied to observations in interpersonal interaction. As announced. Credit, 3 semester hours.

459. Minority Groups (SWK 459)

The same course as SWK 459. Credit, 3 semester hours.

Social Institutions***303. The Family**

Structure and functions of kin groups in societies. Types of families. Cooperation and conflict. The family in relation to other social institutions. Mate selection, courtship, and family relationships. Stability and change. Spring. Credit, 3 semester hours.

413. Industrial Sociology

Sociological perspectives on industry, business and commerce. Exchange theory will be included. The case study method will be employed. Students will engage in cross-cultural analysis. Several Saturday field trips to local industries are required. Spring, 1992 and alternate years. Credit, 4 semester hours.

417. Sociology of Religion (REL 417)

Prerequisite: SOC 201.

Religious institutions and relationships in modern society. As announced. Credit, 3 semester hours.

445. Cultural Differences and Education

Sociological analysis of the educator's problems of insight and judgment when dealing with students, parents, townspeople, or colleagues who come from different cultural backgrounds; specific focus upon the problems of ethnocentrism as encountered by classroom teachers and administrators; explanation of teaching situations in terms of culture theory and crosscultural communication. Fall. Credit, 3 semester hours.

*Other Social Institutions courses include:

SOC 105 Introduction to Cultural Anthropology (See Basic Studies Section)

SOC 280 Health and Society (See Medical Sociology Section)

SOC 312 Sports in Contemporary Society (See Modern Society Section)

Social Anthropology (American Indian Studies)***458. American Indians Before Columbus (AIS 458)**

An introduction to the study of ecological adaptations by North America's original inhabitants, with emphasis on nine culture regions: Inuit, Canada, Plateau, Great Basin, California, Pacific Northwest, Mississippi, Calusa, and Eastern Woodlands. Theories of origin, including Goodman's American Genesis hypothesis, will be examined. Scientific methods of artifact dating will be considered. A research project is required. Spring of 1988 and alternate years. Credit, 3 semester hours.

*Other Social Anthropology courses include:

SOC 105 Introduction to Cultural Anthropology
(See Basic Studies Section)

Method and Theory**210. Introduction to Statistics (MAT 210)**

The same course as CSC 210. Credit, 4 semester hours.

220. Computers and Society

An introduction to the impact of computers on modern society and computer applications in the social sciences. Fall. Credit, 3 semester hours.

390. Junior Seminar on Sociological Concepts

An intermediate-level course in sociological method and theory. As announced. Credit, 3 semester hours.

391. Understanding Social Research (SWK 391)

The same course as SWK 391. Credit, 3 semester hours.

485. Internship in Sociology

Prerequisite: permission of the instructor

Supervised and evaluated participation in the regular activities of an organizational setting for two days a week. In consultation with the instructor, the student is expected to prepare an analysis of the organization's social structure and interactional dynamics. Course meets in a seminar setting one hour per week. SOC 485 requires that the student receive at least 200 clock hours of supervised experience.

NOTE: Pass/Fail grading, Spring. Credit, 6 hours.

490. Senior Seminar on Sociology Concepts

An advanced course in sociological method and theory. Research paper required. Spring. Credit, 3 semester hours.

III. SPECIALTY CONCENTRATIONS**CRIMINAL JUSTICE (CRJ)****200. Introduction to Criminal Justice**

A survey of the history and philosophy of criminal justice, with particular emphasis on the organizational structure of police, courts and corrections. Fall, Spring. Credit, 3 semester hours.

210. Introduction to Law Enforcement

Prerequisite: CRJ 200.

A study of police in society, to include the organization of police forces, centralized police power, organized crime, and the recruitment and training of police officers. Fall. Credit, 3 semester hours.

230. Introduction to Corrections

Prerequisite: CRJ 200.

A study of imprisonment and other forms of punishment, to include the social organization of penitentiaries, jails, and reformatories. Probation, parole, and other forms of correctional treatment are stressed. Fall. Credit, 3 semester hours.

240. Introduction to Criminology

Historical and contemporary theories of criminal behavior are examined, with emphasis on rehabilitation of offenders. Fall, Spring. Credit, 3 semester hours.

300. Criminal Law

Prerequisite: CRJ 200.

An analysis of the substantive criminal law studied from the development of the common law tradition to the present. Focus on statutory definitions in general as well as the North Carolina Criminal Code. Fall. Credit, 3 semester hours.

310. Introduction to Security

An introductory survey of the security field. Included will be private, corporate, industrial, and retail applications. Comparisons between private and public policing will be made. As announced. Credit, 3 semester hours.

315. Criminal Investigation

Prerequisite: CRJ 210.

A study of the methodology relating to the study of crime. Emphasis will be placed more on the theoretical than the applied issues. An emphasis will be placed on the developing "high technology" relating to criminal investigation. Spring. Credit, 3 semester hours.

318. Police Administration

Prerequisite: CRJ 210.

This course will seek to study the police bureaucracy. Included will be both an analysis of line and staff structures of an individual agency as well as the structure of the law enforcement establishment (local, state, national). Distinctions will be drawn between the law enforcement bureaucracy and other public service agencies. Fall. Credit, 3 semester hours.

320. The Courts

Prerequisite: CRJ 200.

A study of the sociology of law, changing concepts of justice, courts and other legal organizations. The activities of lawyers, judges, and related occupations and professions are stressed. Fall. Credit, 3 semester hours.

330. Probation and Parole

Prerequisite: CRJ 230.

Origins, development, and contemporary practices in probation, parole, and community corrections. Includes the impact of these services on other elements of criminal justice. Spring. Credit, 3 semester hours.

341. Juvenile Delinquency (SOC 341)

Prerequisite: CRJ 240 (SOC 240).

A study of alienated youth and anti-social conduct, to include the role of social pressures and peer groups in gang behavior. Treatment programs, community counter-measures, and the prevention of delinquency are stressed. Spring. Credit, 3 semester hours.

397. Experiential Learning I

See Area Coordinator. Fall, Spring, Summer. Credit, 3 semester hours.

398. Directed Research I

Written acceptance by a supervising faculty member is required, based on the student's written proposal. A copy of the proposal, together with the faculty member's acceptance, is submitted for approval to the Area Coordinator prior to registration. Fall, Spring, Summer. Credit, 1 semester hour.

399. Directed Research II

Same as above. Credit, 2 semester hours.

400. Criminal Procedure

Prerequisite: CRJ 300 or permission of the instructor.

A survey and analysis of due process rights of individuals in the criminal process. Emphasis will be on the impact of the Bill of Rights on the practices of police, prosecutors and judges and the remedies available for the violation of those rights. Spring. Credit, 3 semester hours.

410. Organized Crime

Prerequisite: CRJ 200.

A historical and contemporary review of the development and operation of organizations committed to criminal conduct. Emphasis will be placed on organized crime in America and the efforts to control it (especially federal RICO statutes). Spring. Credit, 3 semester hours.

415. Police Community Relations

Prerequisite: CRJ 210.

This course will study the interaction that occurs between the police and members of the community. Emphasis will be placed on the relationships with juveniles, addicts, minorities, and victims. Spring. Credit, 3 semester hours.

450. Special Topics in Criminal Justice

This course is to provide flexibility to introduce specialized courses which may be of substantial interest to students. Topics will vary from time to time according to student interest. As announced. Credit, 3 semester hours.

470. Senior Seminar in Criminal Justice

Prerequisite: Senior Standing in criminal justice or consent of instructor.

Selected topics will be examined, including ethics in criminal justice, professionalism, evaluation programs, current trends, and job possibilities. Fall. Credit, 3 semester hours.

480. Internship in Criminal Justice

Prerequisites: Senior standing and consent of instructor.

Through placement in a criminal justice agency, students will develop some competence in the organization, administration, and practices of that agency. Course requirements include at least 150 clock hours of supervision in the host agency, as well as classroom contact. Prior to field placement students will be instructed in operating policies and procedures of the host agency. NOTE: Pass/Fail Basis. Spring. Credit, 4 semester hours.

497. Experiential Learning II

See Area Coordinator. Fall, Spring, Summer. Credit, 3 semester hours.

499. Independent Study in Criminal Justice

Prerequisite: Acceptance by the Department Member who will supervise, and approval by the Department Chairman.

Restriction: Limited to seniors majoring in criminal justice whose overall cumulative point average is 3.0 or better.

A written proposal is required in advance of registration. Fall, Spring, Summer. Credit, 3 semester hours.

MEDICAL SOCIOLOGY (SOC)**270. Medical Terminology**

Students are introduced to the most frequently used medical terms and abbreviations. Intended primarily for students in social and behavioral science curricula who seek careers in medical organizations. Fall. Credit, 2 semester hours.

280. Health and Society

A sociological analysis of health and illness. Topics covered include how persons respond to illness, health-care selection, social factors in therapy, and the social consequences of illness. Fall. Credit, 3 semester hours.

373. Preventive Health Practices

Prerequisite: SOC 280 or permission of instructor.

A study of community problems and opportunities for health care and the social factors that mold health habits. Project development and implementation required. Spring, 1990 and alternate years. Credit, 3 semester hours.

375. Death, Dying, and Chronic Illness

Stages of personal adjustment to death. Dying as a social process. Therapy with the chronically and terminally ill. Social, economic, and psychological aspects of the funeral. The hospice is discussed. Field work is required. Fall. Credit, 4 semester hours.

376. Medical Ethics (PHI 376)

Prerequisite: SOC 280.

The same course as PHI 376. Credit, 3 semester hours.

377. Drug Use and Abuse

Prerequisite: SOC 280 or permission of instructor.

A study of the types and function of pharmaceutical treatments. Drug addiction is analyzed as a social, psychological, and biological process. Spring. Credit, 3 semester hours.

SOCIAL WORK (SWK)**250. Introduction to Social Work**

Prerequisites: CMA 105, 106.

Required for: Social Work Major.

Historical and current overview of the social welfare system and the field of social work. Basic social work concepts. Social welfare structure and services. Social work intervention methods. Field experience required. Fall, Spring. Credit, 3 semester hours.

345. Human Behavior and Social Environment I

Prerequisites: BIO 103 or equivalent, PSY 101; SOC 101 or SOC 201.

Behavior in the socio-cultural psychological and biological contexts which determine life-cycle development and behavior. Human functioning in the social environment. Spring. Credit, 3 semester hours.

348. Social Welfare Policies and Programs I

Process of policy-making, programming and planning. Social, cultural, economic, and political influences on the social welfare system. Spring. Credit, 3 semester hours.

350. Correctional Treatment

Discussion and application of various Social Work methods will be included along with the history of treatment and rehabilitation in correctional institutions. Students will focus upon how a social worker provides services within the authoritarian setting of a correctional institution. Fall. Credit, 3 semester hours.

354. School Social Work

Prerequisite: SWK 250 or permission of instructor

An overview of school social work as an area of social work practice. Emphasis will be placed upon historical development, legislation affecting school social work practice, problems of school age children, and the role of the school social worker in dealing with these problems. As announced. Credit, 3 semester hours.

380. Social Work Practice I

Prerequisite: SWK 250 is recommended.

Social work methods for serving individuals, groups, and communities. Fall, Credit, 3 semester hours.

383. Child Welfare Services

Prerequisite: SWK 250 is recommended.

Historical perspective on the development of our society's perception of children's needs. Current situation in social services for children. Fall. Credit, 3 semester hours.

384. Social Gerontology

Prerequisite: SWK 250 is recommended.

Problems and needs of the aged. Role of the social worker in planning and providing services. Analysis of existing programs. Students will be involved in the delivery of care to aged individuals. Fall. Credit, 3 semester hours.

385. Social Work Practice II

Prerequisite: SWK 380.

A continuation of SWK 380. Spring. Credit, 3 semester hours.

391. Understanding Social Research

Prerequisite: SOC 201 or 101.

The ethics, standards, and methods of scientific inquiry in social research and the helping services. Particular emphasis is given to standards, and methods to improve helping skills. The course is directed to the professional research needs of those preparing for careers in such areas as criminology, medical sociology, and social work. Spring. Credit, 3 semester hours.

397. Experiential Learning I

See Program Director. Fall, Spring, Summer. Credit, 3 semester hours.

398. Directed Research I

Written acceptance by a supervising faculty member is required, based on the student's written proposal, together with the faculty member's acceptance, is submitted for approval to the Program Director prior to registration. Fall, Spring, Summer. Credit, 1 semester hour.

399. Directed Research II

Same as SWK 298. Credit, 2 semester hours.

403. Supervision in Human Service Organizations

Prerequisite: SWK 248.

A survey of administrative considerations such a manpower utilization, supervisor/worker interaction, and roles and functions of supervisors and workers. This course is suggested for students who presently are supervisors or expect to be in a supervisory position. As announced. Credit, 3 semester hours.

445. Human Behavior and Social Environment II

Prerequisite: SWK 345.

This course is a continuation of SWK 345. Special focus is placed on issues of human development that are the concerns of generic entry level social work practitioners. Fall. Credit, 2 semester hours.

448. Social Welfare Policies and Programs II

Prerequisite: SWK 348.

This course is a continuation of SWK 348. Theories of organization and their implication for social work are explored. Emphasis is placed on the underlying assumption, goals, and possible consequences of professional policy positions. Spring. Credit, 2 semester hours.

459. Minority Group

Ethnic, religious, racial, and other minorities. Types of majority-minority relationships. Social integration, segregation, discrimination and prejudice. Spring. Credit, 3 semester hours.

470. Field Work I

Prerequisite: SWK 348 and 380 and permission of instructor.

Learning experience in a social work agency. Students will develop some competence in the skills and processes used in practice, and will relate theory to experience in the field. SWK 470 requires that the student receive at least 200 clock hours of supervised field work. NOTE: Pass/Fail basis. Fall. Credit, 5 semester hours.

471. Field Work II

Prerequisite: SWK 470 and permission of instructor.

A continuation of SWK 470. SWK 471 requires that the student receive at least 200 clock hours of supervised field work. NOTE: Pass/Fail basis. Spring. Credit, 5 semester hours.

497. Experiential Learning II

See Program Director. Fall, Spring, Summer. Credit, 3 semester hours.

IV. STUDENT-ORIGINATED STUDIES (SOC)**397. Experiential Learning I**

See Area Coordinator. Fall, Spring, Summer. Credit, 3 semester hours.

398. Directed Research I

Written acceptance by a supervising faculty member is required, based on the student's written proposal. A copy of the proposal, together the faculty member's acceptance, is submitted for approval to the Area Coordinator prior to registration. Fall, Spring, Summer. Credit, 1 semester hour.

399. Directed Research II

Same as above. Credit, 2 semester hours.

497. Experiential Learning II

See Area Coordinator, Fall, Spring, and Summer. Credit, 3 semester hours.

499. Independent Study in Sociology

Prerequisite: Acceptance by the Department Member who will supervise, and approval by the Department Chairman.

Restriction: Limited to seniors majoring in sociology whose overall cumulative point average is 3.0 or better. A written proposal is required in advance of registration. Fall, Spring, Summer. Credit, 3 semester hours.

PEMBROKE
STATE UNIVERSITY

Special Programs and Interdisciplinary Majors and Minors

CHANCELLOR'S SCHOLARS PROGRAM*Director: CHARLES R. JENKINS***CHANCELLOR'S SCHOLARS COUNCIL**

MARY BOYLES
ROBERT W. BROWN*
JOSE J. D'ARRUDA
JOHN E. REISSNER
KATHRYN K. RILEIGH

ROBERT O. SCHNEIDER
KATHRYN M. SULLIVAN
PATRICIA D. VALENTI
RUDY. D. WILLIAMS*

*Faculty Coordinator

Chancellor's Scholars are selected on the basis of exceptionally high grades, Scholastic Aptitude Test (SAT) scores or American College Testing (ACT) scores, and/or extra-curricular achievements. Tuition scholarships are awarded to as many of the Chancellor's Scholars as possible. Chancellor's Scholars are appointed by the Chancellor upon the recommendation of the Chancellor's Scholars Council. After receiving the recommendation from the Council, the Chancellor sends a personal letter to the student inviting him or her to participate in the program.

The Chancellor's Scholars Program promotes the scholarly growth of the outstanding students selected for the program by providing an enriching series of interdisciplinary seminars. Participation in the Chancellor's Scholars Program also allows the student to obtain a broad and solid general education and to select an existing major at the University that best meets individual career goals. The Chancellor's Scholars Program seminars emphasize both the open exchange of ideas in on-going discussions and the varied perspectives of guest speakers. They are intended to develop and employ the skills of students bringing exceptional experience, talent, and motivation to the program; as such, they demand the active contribution of all participants. Frequent reaction papers and, in the higher level seminars, increasing responsibilities for independent study are expected within the program. The course offerings for the Chancellor's Scholars Program total 22 semester hours, and Chancellor's Scholars are expected to enroll in one Chancellor's Scholars Program course each semester. To graduate with the Chancellor's Scholars designation, the student must have completed the individualized Chancellor's Scholars Program designed for the student by the Chancellor's Scholars Council, including three semester hours devoted to the CSP Thesis/Project. The course offerings for the Chancellor's Scholars Program are:

COURSES (CSP)**100. Current World Problems**

Analysis of selected contemporary events from the points of view of history, political science, psychology, geography, economics, philosophy, religion, and sociology, in the light of weekly world developments. Emphasis upon the appreciation and development of logic and style in critical thought in considering international and domestic conflicts, human rights and institutional effectiveness, freedom and responsibility, and resources, technology, and the environment. Fall. Credit, 3 semester hours.

A Chancellor's Scholar will receive credit in Basic Studies for a course in Social Science.

200. Great Cultural Epochs I

Interdisciplinary examination of cultures in selected epochs from prehistory to the Baroque Era. Illustrative works and ideas from literature, art, music, religion, and philosophy, studied to characterize each period and its contribution to humanity's self-understanding. Spring. Credit, 3 semester hours.

A Chancellor's Scholar will receive credit in Basic Studies for a course in Section (5) of Humanities.

201. Great Cultural Epochs II

Continuation of CSP 200, examining cultures in selected epochs from the Baroque to the present. Antecedents and consequences of some focal cultural themes chosen for the semester, e.g. naturalism in European literature, the experience of the American frontier, the philosophy of the Age of Enlightenment, and political and social upheaval in the French Revolution. Fall. Credit, 3 semester hours.

A Chancellor's Scholar will receive credit in Basic Studies for a course Section (5) of Humanities.

240. Practice and Trends in Computer Applications

Prerequisite: MAT 107 or equivalent preparation.

The description of selected systems in terms appropriate to computation, and consideration of the limitations of such descriptions. Current and projected application of computers to research and planning, with programming techniques and strategies. Discussion, in seminar, of projects, case-studies, and social issues pertinent to the use of computers. Practice in the use of available computational resources, including "packaged" programs, microcomputers, and mainframe facilities. Spring. Credit, 3 semester hours.

A Chancellor's Scholar will receive credit in Basic Studies for a course in Section (4) of Natural Sciences and Mathematics.

250. Structures of the Universe

Aspects of human understanding of the physical and mathematical universe, with focus on some specific aspects or themes each year. Historical and present-day theories, observation, and experiments, and the persons behind them. Ideas and philosophical aspects of evolving structures, and the concepts of time, distance, matter, energy, and light in these contexts. Ideas and uses of mathematics, through differential calculus. Fall. Credit, 3 semester hours.

A Chancellor's Scholar will receive credit in Basic Studies for a course in Section (2) Natural Science and Mathematics.

275. Frontiers in Human Behavior

Recent topics concerning advances in the study of human behavior are examined within a seminar format. Relevant readings are assigned on brain/behavior connections, social roles, and theories of personality. Class presentations and discussion form a major portion of the course.

A Chancellor's Scholar will receive credit in Basic Studies for a course in Social Science.

400. Research Methods and Prospectus

Preparation of a prospectus for the thesis or project, in consultation with an advisor. Group discussion on the methodology, standards, and experience of research and criticism. Fall. Credit, 1 semester hour.

450. Scholars Thesis/Project

Preparation of a thesis or project in consultation with a faculty committee chosen by the student; presentation of the work in seminar. Independent study in the student's major is encouraged. Spring. Credit, 3 semester hours.

COLLEGE OPPORTUNITY PROGRAM**Co-Directors*

*THERESA G. HALE ANNE LOCKWOOD *SANDRA M. STRATIL

The College Opportunity Program is designed to admit a limited number of students who meet most, but not all, of Pembroke State University's regular admission standards. Students are selected on the basis of high school academic record, scholastic standing in the high school graduating class, SAT or ACT scores, and the recommendation of the high school counselor. The application for admission should be filed as early as possible.

The student enters the College Opportunity Program in the summer for five-week session including preliminary testing and courses designed for the development of academic skills to prepare him/her for the Fall Semester. The student who successfully completes these summer courses is then eligible to continue in the Fall Semester. In the Fall and Spring Semesters, the student is allowed to register for 12 hours of academic courses and 1 hour courses in Orientation and Physical Education. In addition, the student meets regularly with the COP advisor for special advisement and counseling. Each student's academic eligibility is reviewed at the end of the Fall Semester and the Spring Semester. If he/she meets the academic eligibility requirements listed under "Academic Eligibility" in the college catalog and if he/she has successfully completed the College Opportunity Program requirements, he/she is admitted to the University as a regular student at the end of the Spring Semester.

DEPARTMENT OF AEROSPACE STUDIES*Director: CAPTAIN MARVIN E. LANDS*

MARIE BUTLER

OBJECTIVES

The objectives of the Aerospace Studies program are as follows:

1. To recruit, train and produce a highly qualified Air Force officer capable of performing effectively in an assigned Air Force specialty.
2. To provide a curriculum which is dynamic and responsive to the educational requirements of the Air Force junior officer.
3. To provide relevant pre-professional preparation for future Air Force officers in their freshman and sophomore years.
4. To provide relevant pre-professional preparation for future Air Force officers pursuing the Professional Officers' Course.
5. To stimulate the optimum development of military leadership among students through meaningful experience provided within a functional context.
6. To motivate students to pursue flying careers and to provide practical indoctrination in flight operations.

PROGRAM REQUIREMENTS

To be eligible for the General Military Course (GMC) each individual must:

1. Be a full-time student.
2. Be a 14 years of age or older.
3. Be a U.S. citizen (there are provisions for aliens to participate in the GMC program).
4. Be of good moral character.
5. Meet University medical standards for admission to the institution.
6. Not have been disqualified by disenrollment from an officer training program.

To be eligible for the Professional Officers Course (POC), each individual must:

1. Be a full-time student and schedule to receive a baccalaureate degree.
2. Be a U.S. citizen.
3. Be of good moral character.
4. Be certified Medically Qualified by appropriate Air Force medical authorities.
5. Be at least 17 years of age.
6. Successfully complete either GMC or equivalent training and a four-week Field Training Course.
7. Attain a minimum qualifying score on the Air Force Officers Qualification Test.
8. Have two academic years remaining when entering the POC.
9. Be in good academic standing.

PROGRAM

The General Military Course (GMC) is an introductory level course dealing with mission, organization and function of the U.S. Air Force, and with development of air power into a prime element of national security. The GMC is developmental in nature and is designed to motivate and prepare cadets for entry into the Professional Officers Course (POC). The standard GMC is a two-year course in Aerospace Studies (ARS). The first year is designated ARS 111 and 112 and the second year ARS 211 and 212. The GMC totals approximately 120 clock hours consisting of a suggested 60 hours of academics and 60 hours of Leadership Laboratory.

The POC subject matter includes a study of the United States armed forces' role in contemporary society, and the role of the professional officer as a member of society along with theoretical and applied leadership management and communicative skills. The POC is designed to prepare cadets for active duty as Air Force Officers. It is a two-year course of instruction in Aerospace Studies (ARS) and is normally designated ARS 311 and 312 for juniors and ARS 411 and 412 for seniors. The POC totals approximately 240 clock hours, i.e., 120 hours per year consisting of 90 hours of academic and 30 hours of Leadership Laboratory.

Leadership laboratory provides cadets with practical command and staff leadership experiences through performing various tasks within the framework of the organized Cadet Corps. Leadership Laboratory accounts for 120 hours of the 360 hours normally allocated to Aerospace Studies.

Field Training is an off-campus training program held at selected Air Force bases during the summer. A six-week camp is conducted for all students entering the Air Force ROTC two-year program. All other cadets attend a four-week encampment. The Flight Instruction Program is an integral part of the Air Force ROTC program. The course is offered to a limited number of highly qualified ROTC cadets who are within 24 months of established commissioning date.

Under the two-year program selected students may be enrolled in the POC provided they have two full years of college remaining. If contemplating enrollment in this program, a student should do so prior to completion of the sophomore year, to enter Field Training during the summer preceding the Fall semester of his or her junior year.

Uniforms and textbooks for Air Force ROTC are provided by the Federal Government. All students enrolled in the final two years of Air Force ROTC are under contract and receive a subsistence allowance of \$100 per month.

A limited number of selected students enrolled in the Air Force ROTC program may qualify for scholarships. All scholarships pay \$100 per month, fees, tuition, and an annual textbook allowance.

During the four or six weeks of Field Training Program, all students receive pay and travel allowance.

Students may transfer credits received in other ROTC units established under the provisions of the National Defense Act. ROTC credits may be used as free electives. Prior to commissioning, a student must complete requirements for and receive a baccalaureate degree (or higher degree.) Each student must satisfactorily complete a course in mathematical reasoning prior to receipt of a commission; a list of these courses is available in the Aerospace Studies office.

Students enrolled in the program under a four-year AFROTC Scholarship must satisfactorily complete a 3-credit hour course in English composition prior to the end of the GMC tenure to maintain scholarship entitlements. GMC cadets receiving scholarships of less than four year duration will have two academic years from scholarship activation to complete the English composition requirement; English composition courses satisfying this requirement are listed in the Aerospace Studies office.

COURSES (ARS)

111. The Air Force Today: Air Force Organization & Mission

This is the initial course of study in the four-year Air Force ROTC curriculum. This course is designed to familiarize the student with the mission, organization, and doctrine of the U.S. Air Force and U.S. Strategic Offensive Forces. Corps Training provides the cadet with experience in executing drill movements, as well as, knowledge of customs and courtesies expected of an Air Force member, career opportunities in the Air Force, and the life of an Air Force Junior Officer. Alternate Fall. Credit, 1 semester hour.

112. The Air Force Today: Strategic Defensive Forces

Study of the U.S. Strategic Defensive Forces, U.S. General Purposes and Aerospace Support Forces including those of the Army, Navy, and Marines. Corps Training continues to stress basic fundamentals needed for the cadet to be capable of assuming and discharging his responsibilities in Air Force ROTC functions and as a professional officer. Alternate Spring. Credit, 1 semester hour.

211. U.S. Air Power: The Ascension to Prominence

Study of the history of manned flight to the time than an independent Air Force was formed. The development of concepts and doctrine governing the employment of air power is emphasized. Corps Training places the student in leadership and teaching roles as a cadet non-commissioned officer, and includes further study of the junior officer environment. Alternate Fall. Credit, 1 semester hour.

212. U.S. Air Power: Key to Deterrence

Study of the major events involving air power from the Berlin airlift to the present. Emphasis on understanding the effects of technology on air power and how the nation's objectives are supported by air power. Preparation for Field Training is the objective of this course's Corps Training. Alternate Spring. Credit, 1 semester hour.

311. Air Force Leadership & Management

An integrated management and leadership course emphasizing the individual as a manager in an Air Force milieu. Communication and group dynamics are covered to provide a foundation for development of the Junior Officer's professional skills as an Air Force Officer. Basic managerial processes involving decision-making, utilization of analytical aids in planning, organizing, communicating, and controlling in a changing environment are emphasized as necessary professional concepts. Alternate Fall. Credit, 3 semester hours.

312. Air Force Leadership & Management

An integrated management and leadership course emphasizing the individual as a leader in an Air Force milieu. This course presents multidimensional approaches to the leadership process. Organizational power, politics, managerial strategy and tactics, military justice, and administrative law are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes. Alternate Spring. Credit, 3 semester hours.

411. National Security in a Contemporary Society

This course is composed of academic and military training. The academic portion includes an examination of military professionalism, civil-military interaction, and the international and domestic environment affecting U.S. Defense Strategy. Within this structure, continuing attention is given to developing the communication skills required by Junior Officers. Leadership in military drill and command is practiced. Alternate Fall. Credit, 3 semester hours.

412. National Security in a Contemporary Society

This course studies Air Force Officer classification and assignments, strategy, and the management of conflicts, which include deterrence, arms limitation, limited wars and insurgency, the formulation and implementation of U.S. defense policy, organizational policymaking, and case studies in policymaking. Continued military leadership opportunities are provided in the laboratory period. Alternate Spring. Credit, 3 semester hours.

MILITARY SCIENCE

Director: CAPTAIN MARSHALL FITE

OLIVER R. JOHNSON

The objectives of the Army ROTC Program are to attract, motivate, and prepare selected students to serve as commissioned officers in the active or reserve components of the Army; to provide a practical understanding of the concepts and principles of military science; to develop a strong sense of duty, honor, and country; to promote teamwork and individual fitness; and to develop an understanding of and appreciation for international relations and national security. Attainment of these objectives prepares students for commissioning, and establishes a solid foundation of their professional development and effective performance in the uniformed services or in civilian enterprise.

The Army ROTC Program is of modular construction and is composed of a Basic and an Advanced Course. Enrollment in the Basic Course is open to all full-time students, and it carries with it no obligation for military service. Completion of the Basic Course is a prerequisite for application to the Advanced Course. Prior military service, high school ROTC, or membership in a National Guard or Reserve unit may result in direct Advanced Course placement. Entrance into the Advanced Course is selective and is based on demonstrated performance and leadership potential. Students who satisfactorily complete the Advanced Course and graduate from the university are commissioned as Second Lieutenants.

COURSES (MSC)

BASIC COURSES

101. Military Organization

An orientation to the U.S. Army concentrating on the historical development of ROTC and related customs, courtesies, and traditions of uniformed service. Fall. 1 hour lab per week and 1 hour lecture. Credit, 1 semester hour.

102. Basic Leadership and Management.

An introductory course in leadership and management using case and situational studies to emphasize individual and group needs, group dynamics, and the decision making process. Spring. 1 hour lab per week and 1 hour lecture. Credit, 1 semester hour.

180. The Art of Self Defense (PED 180)

An introductory course in the art of self defense. Taught by a qualified military instructor. Students may use the course as an alternate to 101 or 102.

201. Studies in Decision Making

A study in progressive leadership concentrating on leadership models, personality, and perceptual process. Contemporary and historical leadership problems (case studies) are analyzed from a leader's perspective. Fall. 1 hour lab per week and two hours lecture. Credit, 3 semester hours.

202. Land Navigation and Tactics

An introductory course in land navigation and rifle squad organization, capabilities, and tactics. Spring. 1 hour lab per week and 2 hours lecture. Credit, 3 semester hours.

ADVANCED COURSES**301. Leadership Development**

Prerequisite: Completion of ROTC Basic Course, Basic Camp or equivalent.

Instruction is presented in the psychology and principles of leadership and management, emphasizing a behavioral science approach. Cadets learn the fundamentals and techniques of military instruction/briefings (including effective writing), and receive instruction in advanced land navigation, tactical communications systems, artillery, drill and ceremonies, and physical conditioning. Fall. Three (3) lecture hours and 1½ laboratory hours per week. Credit, 3 semester hours.

302. Unit Level Command Responsibilities

Prerequisite: Completion of MSC 301 or equivalent.

A study in leadership from the perspective of the Second Lieutenant concentrating on the coordination and execution of administrative and tactical command decisions. Laboratory periods concentrate on leadership development, physical training, and selected presentations. Spring. Three (3) lecture hours and three (3) laboratory hours per week. Credit, 3 semester hours.

401. Basic Officer Course Preparation (3)

Studies in military subjects which will prepare an individual for those duties and responsibilities of a newly commissioned officer. These subjects include Military Leadership, Small Unit Administration, Human Self-development, Leadership Aspects of Contemporary Issues, Unit Readiness, Company Administration, Effective Written Communications, Awards and decorations, and Fundamentals of Management. Three (3) lecture hours and 1½ laboratory hours per week. Fall. Credit, 3 semester hours.

402. Advanced Leadership and Management

Prerequisite: Completion of MSC 401.

Studies in Military Staff organization and procedure. Topics essential to newly commissioned officers including an in-depth survey of the Military Justice System and courts-martial procedures. Practical application of leadership skills in dealing with supply and maintenance procedures. Students also are required to prepare and present military instruction to military science classes. Spring. Three (3) lecture hours and three (3) laboratory hours per week. Credit, 3 semester hours.

421. The American Military Experience (HST 406)

Prerequisite: Completion of MSC 301 or 302.

A survey of American Military History concentrating on the major factors and events which have influenced US foreign policy during periods of war and peace. Fall. Credit, 3 semester hours.

SCIENCE EDUCATION MAJOR

Coordinators: DR. PETER WISH
DR. SUE BOWDEN

PROGRAM ADVISORY COMMITTEE

DR. JOSE D'ARRUDA—Physics

DR. HAROLD J. TEAGUE—Chemistry

DR. BONNIE KELLEY—Biology

DR. SUELLEN CABE—Earth

Science

DR. CARL FISHER—Education

The Departments of Biology, Education, Geology/Geography and Physical Science offer an interdepartmental Bachelor of Science Degree program in Science Education. This program is designed to prepare prospective teachers of science in Grades 9-12. Upon completion of the program graduates will be eligible for the North Carolina Secondary Science Comprehensive Certification. Students will be required to concentrate in one of the four major areas of science (biology, chemistry, physics or earth science) and to complete some course work in each of the other three areas. Course offerings in Science Education, as well as coordination of the program, are offered through the Physical Science Department.

Requirements for a Bachelor of Science Degree in Science Education

1. Orientation and Basic Studies Requirements including special requirements for certification and certain required and cognate courses (51 semester hours).

12 semester hours of Natural Science and Mathematics will count toward Basic Studies and toward major requirements.

2. Teaching Area Concentration

A. BIOLOGY

Required Biology courses (33 semester hours)

BIO 100: Principles of Biology

BIO 100L: Laboratory Investigation and Experiences in General Biology

BIO 101: General Botany

BIO 102: General Zoology

BIO 304: Principles of Ecology

BIO 371: Cell Biology

BIO 472: Principles of Genetics

9 semester hours in biology

Required cognate courses (38 semester hours)

MAT 107: College Algebra

MAT 215: Calculus with Applications

CHM 100&L: General Chemistry

CHM 101&L:	General Chemistry
CHM 300:	Organic Chemistry
GLY 115:	Earth Science
GLY 115L:	Earth Science Lab
GLY 101:	Historical Geology
GLY 101L:	Historical Geology Lab
PHY 150:	College Physics I
PHY 151:	College Physics II
PHY 206:	Physics Laboratory
PHY 207:	Physics Laboratory
CSC 405:	Computers in Education

B. CHEMISTRY

Required chemistry courses (31 semester hours)

CHM 100&L:	General Chemistry
CHM 101&L:	General Chemistry
CHM 226:	Elementary Inorganic Chemistry
CHM 227:	Classical Methods of Analysis
CHM 300:	Organic Chemistry
CHM 301:	Organic Chemistry
CHM 410:	Physical Chemistry
CHM 498:	Literature Seminar
CHM 311:	Biochemistry

Required cognate courses (39 semester hours)

MAT 109:	College Algebra and Trigonometry
MAT 221:	Calculus I
MAT 222:	Calculus II
BIO 100:	Principles of Biology
BIO 100L:	Laboratory Investigation and Experiences in General Biology
BIO 101:	General Botany
or	
BIO 102:	General Zoology
GLY 115:	Earth Science
GLY 115L:	Earth Science Lab
GLY 101:	Historical Geology
GLY 101L:	Historical Geology Lab
PHY 150:	College Physics I
PHY 151:	College Physics II
PHY 206:	Physics Laboratory
PHY 207:	Physics Laboratory
CSC 405:	Computers in Education

C. PHYSICS

Required physics courses (29 semester hours)

PHY 150:	College Physics I
PHY 151:	College Physics II
PHY 206:	Physics Laboratory
PHY 207:	Physics Laboratory
PHY 218:	Optics
PHY 256:	Modern Physics

PHY 320:	Electricity and Magnetism
PHY 321:	Electricity and Magentism
PHY 326:	Heat and Temperature
PHY 356:	Modern Electronics
PHS 116:	Exploring Man's Energy Choices

Required cognate courses (42 semester hours)

MAT 109:	College Algebra and Trigonometry
MAT 221:	Calculus I
MAT 222:	Calculus II
MAT 322:	Differential Equations
BIO 100:	Principles of Biology
BIO 100L:	Laboratory Investigations and Experiences in General Biology
BIO 101:	General Botany
or	
BIO 102:	General Zoology
GLY 101:	Historical Geology
GLY 101L:	Historical Geology Lab
CHM 100:	General Chemistry
CHM 101:	General Chemistry
PHS 156:	Astronomy
CSC 405:	Computers in Education

D. EARTH SCIENCE

Required Earth Science courses (32 semester hours)

GLY 100:	Physical Geology
GLY 100L:	Physical Geology Lab
GLY 101:	Historical Geology
GLY 101L:	Historical Geology Lab
GLY 226:	Physical Oceanography
GLY 262:	Environmental Geology
GLY 310:	Mineralogy and Petrology
GLY 325:	General Paleontology
GLY 246:	Climatology
GLY 366:	Geomorphology
GLY 425:	Stratigraphy and Sedimentology
PHS 156:	Astronomy

Required cognate courses (38 semester hours)

MAT 107:	College Algebra
MAT 215:	Calculus with Applications
CHM 100&L:	General Chemistry
CHM 101&L:	General Chemistry
CHM 300:	Organic Chemistry
BIO 100:	Principles of Biology
BIO 100L:	Laboratory Investigations and Experiences in General Biology
BIO 101:	General Botany
or	
BIO 102:	General Zoology
PHY 150:	College Physics I
PHY 151:	College Physics II

- PHY 206: Physics Laboratory
 PHY 207: Physics Laboratory
 CSC 405: Computers in Education

3. Professional Requirements (28 semester hours)

- SCE 300: Early Experience for Prospective Science Teachers
 SCE 301: Practicum for Secondary Science Teachers
 SCE 400: Teaching Science in the Secondary School
 EDN 227: Foundations of Education I
 EDN 202: Educational Psychology
 EDN 308: Psychology of Adolescence
 EDN 419: Teaching Content Area Reading
 EDN 437: Mainstreaming the Exceptional Student (Secondary)
 EDN 445: Foundations of Education II (Secondary)
 EDN 448: Student Teaching in the Secondary School

4. Electives (0)

TOTALS

- BIOLOGY: 138 semester hours
 CHEMISTRY: 137 semester hours
 PHYSICS: 137 semester hours
 EARTH SCIENCE: 137 semester hours

Requirements for certification in Science for the B.S. Degree in Middle Grades Education (6-9)

PHS 110, 111, 108, 109, PHY 150, 151, 206, 297
 BIO 100, 100L, 103; CHM 100&L
 GLY 115, 115L, 101; SCE 350

Total hrs.: 29

COURSES: SCIENCE EDUCATION (SCE)

300. Early Experiences for Prospective Science Teachers

An introduction to the teaching of science for prospective secondary science teachers. A minimum of 16 clock hours of directed classroom observations and planned participation in actual classroom settings and 8 clock hours of seminar class instruction in the teaching area. Fall. Credit, 1 semester hour.

301. Practicum for Secondary Science Teacher

Prerequisites: SCE 300 and at least 16 semester hours of science in area of concentration. Two two-hour laboratories per week, practical experiences in setting up laboratories in the life and physical sciences. The student will be assigned to members of the participating science departments as laboratory assistants. Fall, Spring. Credit, 2 semester hours.

350. The Teaching of Science in the Middle Grades (6-9)

Prerequisite: Junior Standing

Purposes, methods, materials, and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials appropriate for teaching science in the middle grades. Fall, Spring. Credit, 3 semester hours.

400. Teaching Science in the Secondary School

Prerequisites: SCE 300, 301, and admission to Professional Semester.

Purpose, methods, materials, and evaluation procedures in the life and physical sciences; preparation of teaching plans and materials. Spring. Credit, 3 semester hours.

APPLIED GERONTOLOGY (MINOR)*Coordinator: STEPHEN M. MARSON*

The Programs in Biology, Psychology, Recreation, Sociology and Social Work offer an interdisciplinary Minor in Applied Gerontology. The Minor is designed to enhance the student's knowledge base in gerontology for both personal growth and professional advancement. The Minor offers the student understanding of causal linkages between the changes in biological functioning and their psychosocial adaptions. The minor also addresses the manner in which one can effectively deal with the changes of aging while still maintaining a productive life.

	<i>Courses</i>	<i>Sem. Hr.</i>
BIO 103	Human Biology	3
BIO 300	Medical Vocabulary OR SOC 270 Medical Terminology	2
PSY 305	Psychology of Adult Development & Aging	3
REC 425	Leisure Activities for Middle and Older Adulthood	3
SOC 375	Death, Dying and Chronic Illness	4
SWK 384	Social Gerontology	3
	Total	18

In order to successfully complete the Minor in Applied Gerontology, the student is required to enroll in a field practicum within his/her major. The internship must be completed under the auspices of an institution or agency whose primary function is related to the elderly population.

PERSONNEL AND ORGANIZATIONAL LEADERSHIP (MINOR)*Coordinators:*

EMMETT LOMBARD

ED POWERS

MICHAEL STRATIL

The Departments of Psychology, Business Administration, and Political Science offer an interdepartmental minor in Personnel and Organizational Leadership. This program is designed to provide the following competencies: 1) a theoretical understanding of the basic psychological processes that operate in work settings; 2) skill in establishing rapport with co-workers; 3) skill in assessing the qualifications and performance of others; 4) skill in managing and training others; and 5) a theoretical understanding of organizational structure and the forces that influence it.

COURSES**A. Psychology (9 hours)**

PSY 216	Introduction to Social Psychology
PSY 316	Psychology of Leadership
PSY 317	Psychology of Social Communication
PSY 403	Introduction to Psychological Testing
PSY 415	Human Motivation

B. Management/Administration (9 hours)

BUS 307	Principles of Management
BUS 308	Organizational Theory and Behavior
BUS 408	Personnel Management
BUS 466	Business Policy
ECN 407	Economics of Labor
PLS 210	Introduction to Public Administration
PLS 319	Public Policy Analysis
PLS 360	Introduction Internship in Public Administration

A particular course cannot be used to satisfy the requirements of both a major and a minor at the same time.

Students majoring in any subject are eligible to participate in the Personnel and Organizational Leadership minor. Those who are interested should consult with the department chairman from Psychology, Business Administration, or Political Science. Since many courses in the minor have prerequisites that can be taken to meet Basic Studies requirements, early planning will be to the student's advantage.

WORLD STUDIES (MINOR)*Coordinator: JOHN CHAY*

Eighteen semester hours are required for the satisfactory completion of the minor in World Studies. Courses that fulfill the requirements of a student's major area of study cannot be applied toward this minor. The minor is divided into specified and elective courses.

COURSES (WLS)**Specified Courses (Select two)****200. World Cultural Geography (GGY 200)**

Concept of culture applied to the human environment. Geographical variations and evolution resulting from the interaction between cultural and physical processes. Culture and technological change. Population and migration. Cultural effects on perception of the environment. Spring. Credit, 3 semester hours.

251. Introduction to World Politics (PLS 251)

Prerequisite: PLS 100 or 101.

Analysis of politics and relations among nations: (1) sovereignty, (2) domestic jurisdiction, (3) status quo, (4) colonialism, (5) balance of power, (6) alliance and neutrality, (7) peaceful adjustment of disputes, (8) disarmament, (9) standards of international conduct, (10) economic development and political advancement of the developing countries. Fall, Spring. Credit, 3 semester hours.

450. Seminar in International and Intercultural Relations

Prerequisite: Approval of the Coordinator, World Studies Minor.

Research seminar to gain experience in formulating, designing, and implementing meaningful research projects in international and intercultural relations. A substantial paper will be prepared by the student and presented to the Seminar and World Studies faculty. Fall, Spring. Credit, 3 semester hours.

Elective Courses (Select four)

Courses must be selected by the student, approved by the Coordinator, and noted in the minor advisement file of the student. A minimum of 12 unduplicated semesters hours will be chosen. Participating departments include:

Biology
Communicative Arts
Business Administration
and Economics
Geography

History
Political Science
Philosophy and Religion
Sociology, Social Work
and Criminal Justice

100, 101, 102, 103. University Convocation Program

This World Studies Committee offers four one-hour courses to encourage student attendance at campus lectures and cultural events. Each course is given on a Pass/Fail basis. To receive credit, students must attend ten events which have been approved by the World Studies Committee. Fall, Spring. Credit, 1 semester hour each.

PEMBROKE
STATE UNIVERSITY

GRADUATE PROGRAMS

Administrative Studies (M.S.A.S.)

Education (M.A.Ed.)

GRADUATE PROGRAMS

Director: W. HOWARD DEAN

GENERAL INFORMATION

Pembroke State University offers a program of graduate studies leading to:

- A Master of Science Degree in Administrative Studies
- A Master of Arts Degree in Education
- Graduate level (G) certification for teachers and school administrators in eight areas of specialization.

Special information can be found in the program descriptions below.

SCHEDULE OF GRADUATE EXPENSES

Expenses Per Semester: Spring or Fall

Semester Hours	In-State	Out-of-State
3	\$111	\$1,171
6	184	1,625
9	400	2,321

Students who register for classes after the scheduled registration date has passed must pay a \$10 late fee.

If a student lives on campus, add \$960 for room and board per semester.

Expenses for Each 1990 Summer Term

Semester Hours	In-State	Out-of-State
3	\$143	\$1,103
6	198	1,639

If a student lives on campus, add \$285 for room and board term. A charge of \$15 will be made for each returned check.

STUDENT ACTIVITY FEE

The above charges for students taking 6 or 9 semester hours during regular sessions and for all students during summer sessions include a mandatory fee for activities, such as Student Government and the Chavis University Center.

Students taking 7 hrs. or more (whether graduate, undergraduate, or a combination) will pay the full activity fee.

RESIDENCE STATUS FOR TUITION PAYMENT

It is a long-standing practice of the State to require students who are not residents of the State to pay a higher rate of tuition than that charged North Carolina residents. To qualify for in-state tuition, the applicant must generally have lived in North Carolina for a minimum period of twelve months immediately prior to his or her enrollment in an institution of higher learning. During this twelve-month period, the applicant's presence in the State must constitute legal residence in accordance with the University's guidelines as prescribed by the General Assembly. Copies of the Applicable North Carolina law and institutional regulations which govern such classifications determinations are available in the Office of Admissions for inspection upon request. The student requesting in-state residence is responsible for being familiar with the contents of these two documents. See the Admissions section for more detailed information regarding residency status.

THE GRADUATE PROGRAM IN ADMINISTRATIVE STUDIES

Director: DANIEL G. BARBEE

This interdisciplinary program offers graduate study leading to the Master of Science degree in Administrative Studies (MSAS). The MSAS program was established in response to the career and professional development needs of administrators and managers in the region. This master's level program provides advanced study opportunities to qualified individuals from private, public, and non-profit sectors interested in administrative and managerial careers. For those who are already in administrative and managerial positions, the program will refine, update, and improve their career and leadership potential. As an interdisciplinary program, Administrative Studies draws from a variety of disciplines to provide the knowledge and skill base necessary for effective management in business, government, and non-profit organizations.

ADMISSION TO THE PROGRAM

For admission to the Graduate Program in Administrative Studies at Pembroke State University, the application must meet the following requirements:

1. each applicant must have a baccalaureate degree from a college or university of recognized standing;
2. the application for admission, official copies of transcripts of previous study, and other supporting documents should be submitted at least four weeks prior to the semester in which the applicant proposes to begin graduate study;
3. applicants must have a satisfactory undergraduate academic record and must meet at least one of the following minimum GPA (4.0 scale) requirements: have an overall GPA 2.5 on all undergraduate work, or have a GPA of 3.0 in the undergraduate major, or have a GPA of 3.0 on all undergraduate work taken in the senior year;
4. applicants must submit an official report of satisfactory scores on the Miller Analogies Test or the Graduate Record Examination;
5. three letters of recommendation from persons qualified to evaluate the applicant's potential for graduate study. One of the letters must come from the applicant's undergraduate major department. At least two of the letters should be from individuals whose evaluations can be based on current or recent knowledge of the applicant. Persons suitable for providing recommendations include employers, supervisors and professors. Letters from professional colleagues who have significant managerial experience are acceptable;
6. other information such as a personal interview or writing sample may be required.

REQUIREMENTS FOR THE MASTER'S DEGREE IN ADMINISTRATIVE STUDIES

Degree Requirements

1. Candidates for the Master of Science in Administrative Studies will be required to successfully complete a minimum of forty-two semester hours of course work in accordance with the prescribed course of study.

a. All of the forty-two semester hours of graduate credit must be earned in courses designed for graduate students (500 level courses).

b. Courses numbered 500 and above are graduate courses with the following number system; ADM 500-509, courses in the MSAS core curriculum; ADM 510-529, courses in the option areas; ADM 530-559, elective courses; ADM 560-569, independent study, special topics, and research project courses (ADM 562, Administrative Research Project). Additional graduate courses in related areas are also numbered 500 and above.

2. Residence credit

Candidates must have completed one semester of graduate residence at Pembroke State University. Graduate students may satisfy the residency requirement by being continuously enrolled and completing twelve semester hours of graduate study.

3. Degree time limits

Graduate credit applied toward the Master of Science in Administrative Studies must be completed within five years of admission to the program.

4. Credits by transfer, extension or correspondence

The combined total of graduate credit earned in another recognized graduate school and through extension study and allowed by the Graduate Council to apply toward the Master of Science in Administrative Studies degree may not total more than six hours.

No credit applied toward a graduate degree may be obtained by correspondence study.

No graduate study credit earned at another recognized graduate school and transferred to Pembroke State University or graduate study credit earned through extension will be allowed by the Graduate Council to apply toward meeting the residence requirement for a Master's degree.

5. Comprehensive examinations

A candidate for the Master of Science in Administrative Studies degree, in addition to the regular examinations in courses taken for graduate credit, must pass written, comprehensive examinations.

The comprehensive examinations must be scheduled at least six weeks prior to the end of the semester in which the candidate expects to receive the degree and must be taken at least four weeks before the end of the semester in which the candidate expects to receive the degree but may be administered earlier with the approval of the candidate, the candidate's advisor, the Director of the Administrative Studies program, and the Director of Graduate Studies.

6. Administrative research project

Each student is required to complete an Administrative Research Project. This project is a directed, supervised research activity in which the student develops and analyzes a suitable topic, issue, or problem in administration, and reports the results in a written document to be presented and orally summarized and defended before the assembled faculty and students of the MSAS program. Three hours of graduate credit in the MSAS program are earned in the completion of this project and applied toward the requirements for the Master of Science in Administrative Studies degree.

7. Application for graduation

Application for graduation must be filed in the Office of the Director of Graduate Programs not later than four weeks after the beginning of the semester in which the candidate expects to receive the Master of Science in Administrative Studies degree.

8. Conferring of degrees

Candidates for the degree are required to be present at the commencement exercises in the prescribed dress.

Graduate Grading System

The grading system for the graduate program follows:

A-Superior

B-Satisfactory

C-Poor

F-Failure

I-Course work incomplete, must be removed within one year after the end of the course or the I becomes an F.

T-Grade pending, used only for thesis research courses until the sequence of courses is completed.

A graduate student with an accumulation of nine semester hours of less than "B" quality work will be automatically eliminated as a candidate for a Master's degree.

A graduate student who makes an "F" will be eliminated as a candidate for a Master's degree except when a committee composed of the student's advisor and two other MSAS program faculty members recommend continuation and when the recommendation is approved by the Graduate Council.

PROGRAM OF STUDY

The MSAS program consists of a 24-semester hour core curriculum that must be completed by all students; 9-semester hours in an option area; 6-semester hours of approved electives; and an administrative research project of 3-semester hours.

Sem. Hrs.

A. Required Core Courses	24
1. ADM 500 - Administrative Theory and Practice	
2. ADM 501 - Organizational Behavior	

3. ADM 502 - Policy, Legal and Ethical Issues in Administration	
4. ADM 503 - Economic Analysis for Managers	
5. ADM 504 - Financial Resource Administration	
6. ADM 505 - Research and Statistical Methods	
7. ADM 506 - Human Resource Administration	
8. ADM 507 - Computer Technology in Administration	
B. MSAS Option Areas	9
Organizational Leadership	
1. ADM 510 - Organizational Leadership Seminar	
2. ADM 511 - Strategic Planning	
3. ADM 512 - Decisionmaking for Leaders	
Administrative Technology and Information Systems*	
1 ADM 520 - Seminar in Administrative Technology	
2. ADM 521 - Management Information Systems	
3. ADM 522 - Information Systems Planning and Administration	
*The Administrative Technology and Information Systems option area is currently under development.	
C. Administrative Studies Electives.....	6
1. ADM 530 - Organizational Communication	
2. ADM 531 - Accounting for Administrators	
3. ADM 532 - Quantitative Analysis for Administrators	
4. ADM 533 - Leadership and Change	
5. ADM 534 - Administrative Studies Internship	
D. Administrative Research Project.....	3
1. ADM 562 - Administrative Research Project	
TOTAL HOURS (Minimum).....	42

COURSES (ADM)

500. **Administrative Theory and Practice**

This course will examine administration as a general subject of inquiry. It covers the development of modern administrative practice, and other practice, and the emergence of corporations, public agencies, and other organizations as important institutions in society. Major theories, concepts, and emerging ideas in administration are considered from several perspectives: institutional, organizational, and the future. Throughout the course the focus is on the phenomenon of effective **administration** as practiced in a variety of organizational settings.

501. **Organizational Behavior**

The course will examine explanations of individual behavior (perceptions, attributions, motivations, attitudes); the nature of human behavior in groups (group dynamics, power, leadership); and organizational structures and processes that affect human behavior (organizational and job design, communication, performance appraisal). Principles of organizational change and development will also be addressed. The course will employ case analyses and directed readings in relevant research literature as well as text materials.

502. Legal, Policy, and Ethical Issues in Administration

This course analyzes current legal, policy and ethical issues which apply to administrators in both public and private organizations. Emphasis will be given to regulatory policy, statutory and case law in administration, the politics of regulation, along with administrative and legal processes pertaining to implementation and enforcement. An important emphasis will also be given to the ethical implications of the political, policy, and legal issues raised. Topics will include governmental practices, and administrative responsibility.

503. Economic Analysis for Managers

An overview of methods of economic analysis applied to the modern United States economy. Emphasis on microeconomics and managerial economics such as theory of consumer choice and demand, theory of cost, outputs, and industrial structure, analysis of efficient use of resources within an organization. Also macroeconomic analyses including a review of monetary institutions, and theory of GNP, inflation, and the rate of unemployment.

504. Financial Resource Administration

Financial processes and structures in organizations. Focuses on financial environment, financial concepts, financial analysis, financial dynamics of expansion and retrenchment, capital structure, capital budgeting and dividend policy.

505. Research and Statistical Methods

Examination of the basic research methods and statistical methods used to analyze administrative problems and improve administrative decision-making. Includes research design and analysis, hypothesis testing, descriptive statistics, probability theory, sampling, inference-estimation, time series analysis, regression, correlation, and analysis of variance.

506. Human Resource Administration

Study of how an organization secures, develops, maintains, and rewards employees to meet organization objectives. Topics include recruitment, selection, training performance appraisal, compensation, benefits, and labor-management relations. Examines effective integration of human resource functions.

507. Computer Technology in Administration

Study of computer technology in contemporary organizations. Primary emphasis is on developing a conceptual framework for selecting appropriate hardware and software configurations to perform different organizational functions. The limitations and complications associated with computer technology are also covered. Students will complete several individual projects involving direct experience with various categories of application software, including word processing, database management, statistical analysis, spreadsheet analysis, and decision making.

510. Organizational Leadership Seminar

The theory and practice of leadership in organizations will be considered from the primary perspective of developing analytic, synthetic, and evaluative skill oriented toward defining leadership problems, constructing solutions, and implementing solutions effectively. Leadership behaviors (developing and maintaining relationships, acquiring and disseminating information, making decisions, and influencing others) will be addressed in the context of specific applications. Case analyses and readings from the primary research literature will be supplemented by lecture and class discussion.

511. Strategic Planning

This course is a study of strategic management as a function of leadership. The three primary components of strategic management, which are strategic planning, strategy formulation, and strategy implementation, are analyzed. A case-study approach is used to examine applications in for-profit, non-for-profit and public organizations.

512. Decision-Making for Leaders

This course considers the theory and practice of decision-making in administrative and managerial settings. The emphasis is on the development of diagnostic, analytic, and choice skills that can be employed to improve decision-making at the individual, group, organizational and interorganizational levels. Leading models and approaches to decision-making behavior and its application and consequences in administration are covered. Scenario and case analyses from research literature will be used with lectures and class activities.

530. Organizational Communication

Theory and practice of oral and written communication within organizations, from employee-employer interpersonal communication, interview communication, serial (information dissemination) communication, small group communication, and formal and informal presentations within the organization. All students are expected to fully participate in all written and oral activities and presentations.

531. Accounting for Administrators

The development and use of accounting information by administrators. Includes financial and managerial concepts relevant to public and private sectors.

532. Quantitative Analysis for Administrators

Study of modelling and other analytical methods to address problems and needs of administrative organizations. Describes the uses and limitations of quantitative models as well as criteria for planning and decision-making, simulation, systems analysis, forecasting, analytical programming, and scheduling.

533. Leadership and Change

This course addresses the phenomenon of change, how it affects organizations, and the role of leaders in shaping the future of the organization by guiding change. The course covers types of change, the tools available to leaders for guiding both planned and unplanned change, and the effects, and consequences of change.

534. Administrative Studies Internship

Prerequisite: Consent of Program Director.

This course will involve the student in a seminar and planned field experience of professional development in an appropriate administrative setting. It will be supervised by a designated member of the Administrative Studies faculty and an official representing the cooperating host organization. The scheduled seminar sessions will address a variety of issues designed to enable the student intern to gain knowledge and useful experience from the internship. The intern will apply the knowledge and skills gained from coursework to analyze administrative settings, issues, and problems, and generally to function effectively in an organizational setting. Appropriate readings and a structured written analytical report are required in addition to scheduled seminar sessions.

562. Administrative Research Project

The Administrative Research Project is a directed, supervised research activity in which the student develops and analyzes a suitable topic, issue, or problem in administration. The research subject must be one which can be addressed through the application of the knowledge and the research skills gained from coursework.

THE GRADUATE PROGRAM IN EDUCATION

Director: W. HOWARD DEAN

Pembroke State University offers a program of graduate studies leading to the Master of Arts in Education degree and graduate-level certification for Elementary Education Teachers, Middle Grades Education Teachers, Mathematics Education Teachers, English Education Teachers, Reading Teachers, and Supervisors and School Administrators. The graduate program was established in response to the needs of public school educators in this region of the state. The graduate program is planned as an outgrowth of its strong undergraduate programs in teacher education, which are fully accredited by the National Council for Accreditation of Teacher Education, the North Carolina State Department of Public Instruction, the Southern Association of College and Schools, and the American Association of Colleges of Teacher Education.

ADMISSION TO THE PROGRAM

General Admission Requirements

For admission to a graduate program at Pembroke State University, the applicant must meet the following requirements:

1. each applicant must have a baccalaureate degree from a college or university of recognized standing;
2. the application for admission, official copies of transcripts of previous study, and other supporting documents should be submitted at least four weeks prior to the semester or summer session in which the applicant proposes to begin graduate study;
3. applicants must have a satisfactory undergraduate academic record and must meet at least one of the following minimum GPA (4.0 scale) requirements: have an overall GPA 2.5 on all undergraduate work, or have a GPA of 3.0 in the undergraduate major, or have a GPA of 3.0 on all undergraduate work taken in the senior year;
4. applicants must submit an official report of satisfactory scores on the Miller Analogies Test or the Graduate Record Examination (English Education applicants may substitute NTE scores);
5. applicants must hold or be eligible to hold a North Carolina Class A teaching certificate appropriate for graduate study in the proposed field or a comparable certificate in another state;
6. three letters of recommendation from school officials, professors, or others qualified to evaluate the applicant's potential for graduate study (At least one of the letters of recommendation must come from the applicant's undergraduate major department);
7. other information such as a personal interview may be required.

TEACHING ASSISTANTSHIPS

The graduate school offers a limited number of teaching assistantships. In order to receive an appointment, a student must meet the criteria and be accepted into the program. The student must be full time and be recommended by the Director of Graduate Studies and the department chairman in whose department the student is working toward a degree. The value of the stipend is determined by the time spent in assisting, the qualifications of the assistant, and the nature of the work to be assigned.

The general and specific duties of each assistant will be determined by the Director of Graduate Studies, department chairman, and the faculty supervisor. Various duties include the following: (1) assisting in instruction, (2) assisting with research, (3) supervising laboratory teaching (4) grading papers; (5) proctoring examinations; and (6) holding tutorial sessions for undergraduate students.

UNDERGRADUATE ENROLLMENT FOR GRADUATE COURSES

Provided they are otherwise qualified for admission on graduate study, Seniors at Pembroke State University who are within 9 semester hours of graduation may apply to the Director of Graduate Studies for permission to carry up to six semester hours of graduate course work while completing the baccalaureate degree. Credit earned in this manner may not be used to meet requirements for the baccalaureate degree and, at the same time, be applied toward the Master's Degree.

Seniors who qualify and wish to enroll in a graduate course for undergraduate credit may apply to the Chairperson of their department and the Director of Graduate Studies to do so. However, any graduate course approved for this purpose may not later be applied toward a Master's Degree.

Each student admitted to the Graduate Study Program is immediately assigned an advisor by the Director of the Graduate Program. Members of the Graduate Faculty serve as graduate advisors, and advisors are assigned according to the graduate academic major. Graduate students are expected to meet with their advisors prior to enrollment to plan their program and to meet with their advisors periodically for further advisement.

REQUIREMENTS FOR THE MASTER'S DEGREE IN EDUCATION

Degree Requirements

1. Candidates for the Master of Arts in Education degree will be required to successfully complete a minimum of thirty semester hours of course work in accordance with the prescribed course of study.
 - a. A minimum of twenty-four semester hours of graduate credit must be earned in courses designed for graduate students (500 level courses).
 - b. If necessary, the remainder of a student's program of graduate studies may be composed of courses designated as senior-graduate courses (prescribed 400 level courses).

- c. No more than three semester hours of graduate credit earned in workshops courses may be applied toward a Master's degree.
 - d. Courses numbered 500 and above are graduate courses with the following number system: EDN 500-510, courses in educational administration and supervision; EDN 511-540, courses in curriculum and instruction; EDN 550-555, courses in educational psychology; and EDN 560-570, courses in foundations and research (EDN 599, Independent Study). Additional graduate courses by departments for concentration development and related areas are also numbered 500 and above.
2. Residence credit

Candidates must have completed one semester of graduate residence at Pembroke State University. Graduate students may satisfy the residency requirement by being continuously enrolled and completing twelve semester hours of graduate study or by being intermittently enrolled and completing fifteen semester hours of graduate study.
 3. Degree time limits

Graduate credit applied toward the Master's degree should have been completed within five years preceding the completion of the requirements for the degree.
 4. Credits by transfer, extension or correspondence

The combined total of graduate credit earned in another recognized graduate school and through extension study and allowed by the Graduate Council to apply toward the Master's degree may not total more than six semester hours.
No credit applied toward a graduate degree may be obtained by correspondence study.
No graduate study credit earned at another recognized graduate school and transferred to Pembroke State University or graduate study credit earned through extension will be allowed by the Graduate Council to apply toward meeting the residence requirement for a Master's degree.
 5. Comprehensive examination

A candidate for the Master of Arts in Education degree, in addition to the regular examinations in courses taken for graduate credit, must pass a written comprehensive examination.
The comprehensive examinations must be administered at least four weeks before the end of the spring semester in which the candidate expects to receive the degree and may be given earlier with the approval of the candidate, the candidate's advisor, and the Director of the Graduate Program.
If a thesis is written, the candidate must defend it before a committee consisting of the candidate's advisor as chairman, at least one representative from the candidate's major and one other graduate faculty member. The candidate's advisor, with the approval of the Director of the Graduate Program, will assemble the committee and conduct the examination of the candidate on the thesis.

6. Thesis

A thesis may be accepted for the Master of Arts in Education degree.

Three to six semester hours of graduate credit in the student's major may be earned in preparation of the thesis and applied toward the requirements for a Master's degree.

A thesis project must be approved by the graduate student's advisor and by the thesis committee.

The advisor will supervise the preparation of the prospectus of the thesis, approve it, submit it to the graduate student's thesis committee for approval, direct the student in the preparation of the thesis, assemble and chair the committee for the oral examination of the student on the thesis, inform the student of the calendar dates when the final copies of the thesis are due in the Graduate Program Office, and inform the student of the graduate studies program and University rules which apply.

A minimum of three copies of the thesis—the original and two copies, carbon or acceptable electrographic (one for student, one for archives, one for circulation)—and an abstract must be in the hands of the Director of the Graduate Program at least two weeks before the Commencement at which the degree is to be conferred. Two of the copies must be bound and will be retained by the University. Binding will be arranged by the library and the student will be charged at actual cost.

Students who choose to write a thesis are exempt in some programs from written comprehensives.

7. Application for graduation

Application for graduation must be filed in the Office of the Director of the Graduate Program not later than four weeks after the beginning of the semester or the summer session in which the candidate expects to receive the degree.

8. Conferring of degrees

Candidates for the degree are required to be present at the commencement exercises in the prescribed dress.

Graduate Grading System

The grading system for the graduate studies program follows:

A— Superior

B— Satisfactory

C— Poor

F— Failure

I— Course work incomplete, must be removed within one year after the end of the course or the I becomes an F.

T— Grade pending, used only for thesis research courses until the sequence of courses is completed.

A graduate student with an accumulation of nine semester hours of less than "B" quality work will be automatically eliminated as a candidate for a Master's degree.

A graduate student who makes an "F" will be eliminated as a candidate for a Master's degree except when it is recommended that the student be accepted or continued as a candidate by a committee composed of the student's advisor and two other graduate faculty members and when the recommendation is approved by the Graduate Council.

PROGRAM OF STUDY

The Master of Arts in Education degree may be conferred upon a candidate for the degree who completes the prescribed program of work for one of the specialties described by the following curricula. Each program requires the successful completion of at least thirty semester hours of graduate study inclusive of course work and a thesis, if one is written, as planned and approved by the thesis committee.

1. Elementary Education (K-6)

	Sem. Hrs.
A. Required	12
1. EDN 541 - Curriculum and Foundations in Elementary Education	
2. EDN 553 - The Child as a Learner	
3. EDN 566 - Educational Research	
4. EDN 519 - Language Development and Reading in the Elementary School (K-6)	
B. Guided Electives from Education Emphasizing Elementary Education.....	9
1. EDN 517 - Mathematics in the Elementary School (K-6)	
2. EDN 520 - Science in the Elementary School (K-6)	
3. EDN 521 - Social Studies in the Elementary School (K-6)	
C. Guided Electives from Appropriate 400 and 500 Level Courses in American Indian Studies, Art, Biology, Communicative Arts, Economics, Geology and Geography, Health, Physical Education and Recreation, History, Mathematics, Music, Philosophy and Religion, Physical Science, Political Science, and Sociology	6
1. American Indian Studies: Appropriate 400 Level Courses	
2. Art: Appropriate 400 Level Courses	
3. Biology	
a. Appropriate 400 Level Courses	
b. BIO 512 - Environmental Science	
4. Communicative Arts: Appropriate 400 Level Courses	
5. Economics	
a. Appropriate 400 Level Courses	
b. ECN 551 - Economic Policies	
6. Geology and Geography	
a. Appropriate 400 Level Courses	
b. GGY 503 - Descriptive Regional Analysis	
c. GLY 501 - Earth Science	
7. Health, Physical Education and Recreation	
a. Appropriate 400 Level Courses	
b. HPE 505 - Principles of Health and Physical Education	
8. History	
a. Appropriate 400 Level Courses	
b. HST 510 - Advanced North Carolina History	
c. HST 520 - History of the South	
d. HST 540 - Topics in History	

9.	Mathematics and Computer Science	
a.	Appropriate 400 Level Courses	
b.	CSC 505 - Current Topics in Computers in Education	
10.	Music: Appropriate 400 Level Courses	
11.	Philosophy and Religion: Appropriate 400 Level Courses	
12.	Physical Science	
a.	Appropriate 400 Level Courses	
b.	PHS 520 - Current Trends in Physical Science	
13.	Political Science	
a.	Appropriate 400 Level Courses	
b.	PLS 540 - Systems of State and Local Government	
c.	PLS 545 - American Political Process	
14.	Psychology	
a.	Appropriate 400 Level Courses	
b.	PSY 525 - Advanced Study of Human Growth and Development	
c.	PSY 530 - Psychology of Group Dynamics	
15.	Sociology	
a.	Appropriate 400 Level Courses	
b.	SOC 545 - Cultural Differences and Education	
c.	SOC 560 - Education and Society	
D.	Elective	3
E.	Thesis	0-6
F.	Independent Study	0-3
	TOTAL HOURS (Minimum).....	<u>30</u>

**Courses transferred from other Universities.

1. _____
 2. _____
 3. _____

2. Middle Grades Education (6-9)

Sem. Hrs.

A.	Required Educational Core	9
1.	EDN 552 - Psychology of the Emerging Adolescent (6-9)	
2.	EDN 516 - Middle Grades Curriculum (6-9)	
3.	EDN 566 - Research in Middle Grades (6-9)	
4.	- Course(s) Designated for Subject Matter Area (If Required)	
B.	Guided Electives from the Subject Matter Areas of Language Arts, Mathematics, Reading, Science, and Social Studies	24
	Candidates will choose two twelve hour areas for Middle Grades Certification and degree requirements. Study in these areas should represent an extension of undergraduate work. If new areas are chosen, comprehensive examinations will be taken on the courses designated for those areas.	
1.	Language Arts	
a.	EED 551 and EED 552	
b.	Plus two of the following: CMA 470, 520, 521, 514, 538, 565, 566; EDN 532, 530; EED 542, 543	
2.	Reading **	
a.	EDN 528, 530, and 534	
b.	EDN 527 or 529 or 531 or 532 or 533 or 535	

3. Science: four courses from the following	
a. EDN 520	
b. BIO 512	
c. GLY 501	
d. PHS 520	
e. PHY 448	
4. Social Studies: four courses from the following	
a. ECN 551	
b. HST 510	
c. PLS 540 or PLS 545	
d. SOC 545	
e. other 500-level options (may be taken for up to two courses of the four that are required): HST 520, HST 540; PLS 535; SOC 560	
5. Mathematics: four courses from the following	
a. MAT 500 (Required)	
b. MAT 501	
c. MAT 502	
d. MAT 503 (Required)	
e. MAT 505	
f. CSC 505	
C. Thesis	0-6
D. Independent Study	0-3
TOTAL (Minimum).....	<u>33</u>

*This curriculum includes requirements for graduate certification in Middle Grades Education (6-9). Successful completion of the above programs will lead to the Master of Arts Degree.

**Reading may be used only as a second area in Middle Grades Subject Matter certification.

3. Elementary Education (Reading Education)

Sem. Hrs.

A. Required Education Core	15
1. EDN 516 - Curriculum Development	
2. EDN 519 - Language Development and Reading in the Elementary School	
3. EDN 534 - Diagnosis and Correction of Reading Difficulties	
4. EDN 550 - Advanced Educational Psychology	
5. EDN 566 - Educational Research	
B. Guided Course Work Emphasizing Reading Education	15-21*
The specific number of semester hours and areas of study required of the student will be determined on the basis of the student's prior background in Reading Education at the time of entry into the Program. Courses will be selected from the following (*May include thesis):	
1. PSY 422 - Psychology of Language	
2. EDN 527 - Practicum in Reading Instruction	
3. EDN 528 - Planning the School's Reading Program	
4. EDN 529 - Problems in the Investigation of Reading Instruction	
5. EDN 530 - Reading in the Content-Areas	
6. EDN 531 - Principles of Testing and Measurement in Reading	
7. EDN 532 - Reading for Diverse Learners	

8. EDN 533 - Leadership for Classroom Reading Instruction	
9. EDN 535 - Psychology of Reading	
10. EDN 536 - Foundations of Reading Instruction, I	
11. EDN 537 - Foundations of Reading Instruction, II	
12. EDN 538 - Advanced Diagnosis of Reading Difficulties	
13. EDN 539 - Reading Clinic	
14. EDN 540 - Preparation and Selection of Materials for Teaching Reading	
C. Guided Electives from Appropriate 400 and 500 Level Courses in Reading Education	0-6
D. Thesis	0-6
E. Independent Study	0-3
TOTAL (Minimum).....	<u>30</u>

4. Educational Administration and Supervision (Administration)

	Sem. Hrs.
A. Required	18
1. EDN 500 - Educational Leadership	
2. EDN 501 - Principles of Supervision	
3. EDN 502 - Legal Structures in Education	
4. EDN 506 - Internship and Seminar in Administration	
5. EDN 516 - Curriculum Development	
6. EDN 566 - Educational Research	
B. Guided Elective from Educational Psychology or Psychology	03
1. EDN 550 - Advanced Educational Psychology	
2. PSY 530 - Psychology of Group Dynamics	
3. PSY 525 - Advanced Study of Human Growth and Development	
C. Guided Electives from Business Administrative, Economics, Geography, History, Political Science, Psychology, Sociology, Computer Science*.....	06
1. ECN 551 - Economics Policies	
2. GGY 503 - Descriptive Regional Analysis	
3. PLS 535 - Advanced Public Administration	
4. PLS 540 - Systems of State and Local Government	
5. PLS 545 - American Political Process	
6. *CSC 505 - Current Topics in Computers in Education	
D. Guided Electives in Subject Matter or Professional Education	0-6
1. EDN 503 - School Finance	
2. BUS 408 - Personnel Management	
3. EDN 505 - School Facilities	
4. END 565 - History and Philosophy of Education	
E. Thesis	0-6
F. Independent Study	0-3
TOTAL (Minimum).....	<u>33</u>

Courses transferred from other universities.

- 1. _____
- 2. _____

5. Educational Administration and Supervision (Supervision)

	Sem. Hrs.
A. Required	18
1. EDN 500 - Educational Leadership	
2. EDN 501 - Principles of Supervision	
3. EDN 502 - Legal Structures in Education	
4. EDN 507 - Internship and Seminar in Supervision	
5. EDN 516 - Curriculum Development	
6. EDN 566 - Educational Research	
B. Guided Electives in Educational Psychology and Psychology	03
1. EDN 550 - Advanced Educational Psychology	
2. PSY 530 - Psychology of Group Dynamics	
3. PSY 525 - Advanced Study of Human Growth and Development	
C. Required	06
1. EDN 565 - History and Philosophy of education	
2. CSC 505 - Current Topics in Computers in Education	
D. Guided Electives in Academic Specialization.....	09
E. Thesis	06
F. Independent Study	03
Total (Minimum)	<u>36</u>

6. English Education

	Sem. Hrs.
A. Core Courses (15 hours required).....	15
1. EED 500 - Foundations of Literacy and Literature Education	
2. EED 551 - The Teaching of Writing	
3. EED 552 - The Teaching of Literature	
4. EDN 550 - Advanced Educational Psychology	
5. EDN 566 - Educational Research	
B. Literacy Emphasis (6 hours required; up to 9 hours accepted)	6-9
1. CMA 470 - Advanced Writing and Editing*	
2. CMA 475 - Film Literacy*	
3. CMA 520 - Issues in Contemporary American English	
4. CMA 521 - Mass Media in the Secondary School	
5. CMA 522 - Journalism in the Secondary School	
6. EED 542 - Teaching English as a Second Language	
7. EED 543 - Teaching Speech Communication and Drama	
8. EED 544 - Process Writing: Theory	
9. EDN 532 - Teaching Reading to Diverse Learners	
C. Literature Emphasis (9 hours required**; up to 12 hours accepted)	9-12
1. CMA 457 - Shakespeare*	
2. CMA 514, 515, 516, 517 - Special Topics Seminar	
3. CMA 537, 538, 539, 540 - Figures Seminar	
4. CMA 562, 563, 564, 565 - Epochs Seminar	
5. CMA 566, 567, 568, 569 - Genre Seminar	

D. Cognate Electives (0 hours required; up to 3 hours accepted**)	0-3
1. EED 545 - Process Writing: Practicum	
2. EDN 529 - Problems in Investigation of Reading Instruction	
3. EDN 530 - Reading in the Content Areas	
4. EDN 551 - Diagnosis and Evaluation of Pupils and Programs	
5. EDN 565 - History and Philosophy of Education	
6. PHI 423 - Philosophy of Art and Beauty*	
7. PSY 422 - Seminar in Psycholinguistics*	
8. SOC 545 - Cultural Differences and Education	
9. Thesis - 6 hours**	—
Program Total:	33

*No more than six hours of credit in 400-level courses is permitted.

**Students electing to write a thesis on a literary topic will satisfy three hours of the literature requirement through the thesis. The other three thesis hours will apply to section IV. Cognate Electives.

6 hours credit may be transferred from other universities:

7. Mathematics Education

	Sem. Hrs.
I. Mathematics and Computer Science; Required	21
A. Analysis; Required	6 Sem. Hrs.
1. MAT 521 - Basic Ideas of Analysis I (Alternate yrs.)	
2. MAT 522 - Basic Ideas of Analysis II (Alternate yrs.)	
3. MAT 523 - Real Analysis	
4. MAT 532 - Advanced Calculus for the Mathematics Teacher	
5. MAT 544 - Complex Analysis for the Mathematics Teacher	
B. Algebra and Number Theory; Required	3 Sem. Hrs.
1. MAT 512 - Geometric Linear Algebra	
2. MAT 515 - Topics in Number Theory	
3. MAT 526 - Special Topics in Abstract Algebra	
C. Geometry and Topology; Required	3 Sem. Hrs.
1. MAT 510 - Point Set Topology (Alternate yrs.)	
2. MAT 511 - Advanced Topics in Geometry (Alternate yrs.)	
D. Applied Mathematics; Required.....	3 Sem. Hrs.
1. MAT 503 - Elements of Problem Solving (Required)	
2. MAT 506 - Probability and Statistics for Mathematics Teachers	
3. MAT 507 - Discrete Mathematics for the Mathematics Teacher	
E. Mathematics Electives	6 Sem. Hrs.
II. Mathematics Education; Required.....	9
A. MAT 500 - Curriculum Development and Evaluation in Math Ed. (Required)	
B. MAT 501 - Theoretical Bases of Mathematics Instruction	
C. MAT 502 - History of Mathematics	
D. CSC 505 - Current Topics in Computer Education (Required)	
III. Professional Education; Required	6
A. EDN 550 - Advanced Educational Psychology	
B. EDN 565 - History and Philosophy of Education	
C. EDN 566 - Educational Research (Required)	

IV. Thesis (Optional).....	<u>0-3</u>
TOTAL (Minimum).....	36

Credit for MAT 521 and MAT 522 is not counted unless both are taken.

If MAT 521 and MAT 522 are taken, then 9 semester hours of Analysis is required.

8. Mathematics Education - Computer Science Concentration

	Sem. Hrs.
A. Mathematics and Computer Science; Required	21
1. Analysis; Required	3
a. MAT 523 - Real Analysis	
b. MAT 532 - Advanced Calculus for the Mathematics Teacher	
c. MAT 544 - Complex Analysis for the Mathematics Teacher	
2. Algebra and Number Theory; Required	3
a. MAT 512 - Advanced Topics in Linear Algebra	
b. MAT 516 - Topics in Number Theory	
c. MAT 526 - Special Topics in Abstract Algebra	
3. Applied Mathematics and Computer Science; Required.....	15
Note: CSC 202 will provide candidates with a background in two (2) computer languages. No graduate credit will be given for CSC 202.	
a. MAT 507 - Discrete Mathematics for the Mathematics Teacher (Required)	
b. CSC 508 - Computer Graphics for the Mathematics Teacher (Required)	
c. CSC 509 - Programming and Algorithms for the Mathematics Teacher, I (Required)	
d. CSC 510 - Programming and Algorithms for the Mathematics Teacher, II (Required)	
e. MAT 503 - Elements of Problem Solving	
f. MAT 506 - Statistics and Probability for the Mathematics Teacher	
B. Mathematics Education; Required.....	9
1. MAT 500 - Curriculum Development and Evaluation in Math Ed. (Required)	
2. MAT 501 - Theoretical Bases of Mathematics Instruction	
3. CSC 505 - Current Topics in Computer Education	
4. CSC 511 - Computer Hardware in an Educational Setting	
C. Professional Education; Required	6
1. EDN 550 - Advanced Educational Psychology	
2. EDN 565 - History and Philosophy of Education	
3. EDN 566 - Educational Research (Required)	
D. Thesis (Optional).....	<u>0-3</u>
TOTAL (Minimum).....	36

COURSE DESCRIPTIONS

1. Education Department (EDN)

a. Curriculum and Instruction

NOTE: Where grade symbols (K-6; 6-9) appear it will mean that the course emphasis will be on Elementary Education or Middle Grades Education in accordance with the certification sought by the student.

512. Advanced Study of Exceptionality in Children

An introduction to and an analysis of the principles, problems, characteristics, and psychological aspects of children who have mental retardation; learning disabilities; visual impairments; hearing handicaps; communication disorders; behavior disorders multiple, severe, and physical handicaps; as well as talents and gifts. Contemporary issues in special education as they relate to the inservice educator are explored.

513. Individualized Program Development for Exceptional Students

The focus of this course is the development and implementation of individualized educational programs for the total development of exceptional students. Topics include legal requirements, assessing individual performances, placement and related services, developing long-range and short-term objectives, monitoring and evaluating the IEP, and conferencing/communication skill-building.

514. Management of Exceptional Students in the General Classroom

This course is designed to provide the general classroom teacher and administrative supervisory personnel with a study of the instructional and behavioral techniques, materials, and resources used in the education of mainstreamed students. Emphasis is disabled, educable mentally handicapped, and emotionally handicapped student.

516. Curriculum Development (K-12); (6-9)

Principles, techniques, trends, and innovations which have emerged in the field of curriculum construction and revision. Implications of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning and development. The student will acquire competency in the employment of techniques and practices to improve instruction, such as core curriculum, cultural epochs, correlation of subject matter, and unit construction.

517. Mathematics in the Elementary School (K-6)

A study of the origin and development of the fundamental operations and of the number system of modern mathematics with particular emphasis on the theory of rational integers, divisibility, and the simpler properties of prime numbers. Emphasis will be given to research dealing with problems, methods, and content of modern mathematics instruction.

519. Language Development and Reading in the Elementary School (K-6)

Development of a dynamic language arts program tied into the total background and school experience of the child. The program will include the total language arts program in its various interrelationships. Included are the interactions of children of all ages, the child's search for appropriate linguistic construction, and writing and reading developed through growing perceptual skills and tied to the developing vocabularies of individual children. Listening, speaking, discussing, spelling, writing, and reading through choice and involvement.

520. Science in the Elementary School (K-6)

A combination of subject matter, materials, and methods for teaching science in the elementary school.

521. Social Studies in the Elementary School

An overview of the total program in social studies education for children in early childhood and intermediate age groups. Emphasis given to content, materials, and methods of teaching the social studies.

527. Practicum in Reading Instruction

Designed for the graduate student with previous teaching experience who is interested in pursuing research in the area of reading.

528. Planning the School's Reading Program

A study and evaluation of selected curricula and programs in reading and the planning of a total school reading program.

529. Problems in the Investigation of Reading Instruction

Investigations are made of the literature and research dealing with the teaching of reading in the elementary and secondary classrooms. The course includes a critical examination of the scientific studies, the nature of the reading act, and factors that facilitate effective reading instruction.

530. Reading in the Content-Areas

This course is designed to provide teachers with knowledge of established and innovative practices of teaching in a variety of content-areas, such as mathematics, social studies, and health.

531. Principles of Testing and Measurement in Reading

Prerequisite: 9 semester hours of previous course work in reading.

This course provides a fundamental development of the features and roles of measurement in reading education with emphasis being given to understanding teacher-made and standardized tests and scales. Consideration will be given to statistical concepts of measurement as they apply in reading education.

532. Teacher Reading to Diverse Learners

This course will explore a variety of theories and techniques for teaching reading to diverse learners, such as preschoolers, adults, culturally disadvantaged, bilingual, and exceptional students.

533. Leadership for Classroom Reading Instruction

Prerequisites: EDN 528, EDN 530, and 6 semester hours of additional graduate level course work in reading.

This course is designed to aid the special reading teacher in filling several diverse roles within a school setting. Special emphasis will be given to the roles of lead-teacher and resource-teacher especially in terms of aiding the classroom teacher with developmental and corrective reading classes. The course will include a supervised field-based component whereby the student gains practical experience working in leadership roles with classroom teachers.

534. Diagnosis and Correction of Reading Difficulties

This course will assist the teacher of reading in locating causes of reading difficulties and prescribing corrective procedures. It is designed to give the classroom teacher practical application of methods in solving reading problems. It will include sample lessons and demonstration of remedial methods.

535. Psychology of Reading

A study of the psychological factors in learning to read, in reading ability, in reading disabilities, and in the bases for instructional methods and materials in reading.

536. Foundations of Reading Instruction, I

Restriction: May be taken only by those students without any background or current "A" level certification in reading, or permission of the instructor.

This course is designed to familiarize the non-reading teacher with the basic concepts and skills related to the teaching of reading. Emphasis will be given to the organization and management of reading instruction within the classroom. The basic skills of reading growth and their scope and sequence will be developed. Familiarity with reading instructional materials and methods will be attained.

537. Foundations of Reading Instruction, II

Restriction: May be taken only by those students where seven years have elapsed since their last reading course or those students with an invalid "A" certificate in reading, or permission of the instructor.

This course is designed to update the student's background in the teaching of reading. Emphasis will be placed upon familiarizing the student with recent changes in materials, methods, and skills related to reading instruction. The course will also serve as a review and extension of previous course work in reading for those students whose background is weak.

538. Advanced Diagnosis of Reading Difficulties

Prerequisite: EDN 534 or the equivalent.

This course is designed to provide the reading teacher with advanced study in the determination and evaluation of reading difficulties. Students will be expected to complete, under supervision, in-depth case studies of children with suspected reading difficulties.

539. Reading Clinic

Prerequisite: EDN 538, or may be taken concurrently with EDN 538.

This course is designed to provide the reading teacher with practical experiences remediating students' reading difficulties. The reading teacher will work one-on-one and with small groups of children in a supervised laboratory setting.

540. Preparation and Selection of Materials for Teaching Reading

Prerequisites: 15 semester hours of graduate level course work in reading; recommendation of graduate advisor; and consent of instructor.

This advanced level course is designed to enable the reading teacher to evaluate and select materials in terms of specific instructional situations and needs. Additional emphasis will be given to the processes of design, development, and preparation of instructional materials for specific reading instructional needs.

541. Curriculum and Foundations in Elementary Education

A study of curriculum and foundations including purposes, content, principles, learner, techniques, trends, and innovations in Elementary Education.

b. Educational Administration and Supervision**500. Educational Leadership**

Required of candidates for the Master of Arts in Education degree who are preparing for certification as principals or supervisors. Emphasis is given to educational purposes, school program development, group leadership functions, management of school facilities, community-school interaction, and intraschool and interschool coordination.

501. Principles of Supervision

Analysis of issues, problems, and practices in supervision of instruction. Development and synthesis of a conceptual structure for guiding group process and individual leadership behavior in curriculum research and development, inservice education, and evaluation of teaching and learning.

502. Legal Structures in Education

Constitutional, statutory, and case law bases of educational administration; a study of legal provisions and principles relating to education at all levels. Includes research and analysis of laws dealing with pertinent educational topics.

503. School Finance

Problems relating to financing public education; theory of taxation, types of taxes; current practices of educational finance; federal, state and local support of education formulas for distribution of school aids; budget; procuring revenue; financial capital outlays. Financing school plant construction; maintenance of the plant; insurance of property; taking inventory; and school supplies. Includes the construction of a school budget.

505. School Facilities

Study of the problems involved in financing the construction of school facilities, the procurement of architectural services, the cooperative development of educational specifications, and the construction of school facilities. Includes the management of school facilities for maximum and optimal use; planning for equipment acquisition, circulation and maintenance; and the analysis of the facilities problems of schools and school systems.

506, 507. Internship and Seminar in Administration and/or Supervision

The internship is a significant part of the Master's program in Administration and Supervision, involving experiences under the supervision of a selected professional practitioner chosen for the internship. The internship is coordinated by a University faculty member. Plans for the internship must be made in advance with the faculty advisor, after appropriate course work, and in terms of available practicum opportunities in instructive and administrative aspects of an individual school and/or school system and approved by the Office of the Graduate Program.

c. Educational Psychology**550. Advanced Educational Psychology**

Prerequisites: Introduction to Educational Psychology and the Psychology of Early Childhood, or Adolescence.

A course designed especially for teachers, supervisors, and administrators reviewing modern principles of educational psychology, with particular attention to theories of learning, individual differences, assessment of behavior, personal and social adjustment, and their application to problems of school learning at any level of responsibility.

552. Psychology of the Emerging Adolescent (6-9)

An analysis of the implications of physical, cognitive, socio-emotional, and moral development as they influence the behavior, learning, and adjustment of emerging adolescents. The theories of Ericson, Piaget, and Adler will be examined. Practical classroom application of theory and research will be emphasized.

553. The Child as a Learner

A foundational course in further studying child growth and development as it relates to the teaching-learning situation.

d. Foundations and Research**560. Sociological Foundations of Education**

Contemporary social problems and subcultures which relate to patterns of public education. A sociological analysis of the nature of the school and its impact on the community and on patterns of instruction. Anthropological and sociological materials will be employed.

565. History and Philosophy of Education

Traces the history of educational thought and practice in the western world from ancient times to the present. Included are analysis and interpretation of important elements of modern education derived from leading philosophies throughout history

566. Educational Research

Required of all candidates for the Master of Arts in Education degree. Emphasis is given to research design and methods in education, the reading of statistical terminology in professional literature, and the interpretation and application of educational research. Use of library resources, evaluation of educational research, and an introduction to elementary statistics are included.

599. Independent Study

An independent study of the problems and issues of education relevant to the student's major study areas or areas of concentration carried out by the student at the University and in the field under the supervision of the student's major advisor.

600. Thesis in Education

Prerequisites: Completion of 21 semester hours of graduate work; EDN 566; permission of the student's major advisor; and permission of the Director of Graduate Studies.

The student prepares a Master's Degree thesis in the area of the student's major under the individual direction of the student's major advisor and thesis committee. Graded on a Satisfactory [Pass (P)], Unsatisfactory [Fail (F)] basis. Credit, 3-6 semester hours.

2. Communicative Arts Department (CMA)**English Education: The Teaching of Literacy and Literature**

To enhance the English educator's understanding and knowledge of English language, writing, and literature, the graduate program in English Education seeks to encompass the entire continuum of literacy and literature. Broader than the traditional Master's program in English, the Pembroke State program is multidisciplinary and aims at helping in-service teachers prepare both the linguistically talented for higher education and the linguistically limited for the world of work. Additionally, many courses in the program will be of interest to teachers in related fields and to individuals with particular interests or needs. M.A.Ed. students in English Education may elect to do a six-semester-hours thesis project.

The courses in the Master of Arts in English Education in the Teaching of Literacy and Literature are grouped into four areas:

CORE COURSES (15 hours required)**EED 500. Foundations of Literacy and Literature Education**

Historical foundations for the development of education in English in western cultures; philosophy of secondary education and its relationship to English and communication programs; interpretation of teaching strategies as these relate to English education; recent trends in the theory and practice of literacy and literature education, particularly as these relate to curriculum design.

EED 551. The Teaching of Writing

Composition theory; generating effective writing; multiple modes of evaluating writing from remedial, average, and gifted students; successful pedagogical models; relevant learning theory; projects involving field experience.

EED 552. The Teaching of Literature

Topics, trends and techniques; theory and criticism in teaching; trends in adolescent literature, state-adopted texts; testing and evaluation techniques; relevant learning theory; projects involving field experience.

EDN 550. Advanced Educational Psychology

A course designed especially for teachers, supervisors, and administrators reviewing modern principles of educational psychology, with particular attention to theories of learning, individual differences, assessment of behavior, personal and social adjustment and their application to problems of school learning at any level of responsibility.

EDN 566. Educational Research

Emphasis is given to research design and methods in education, the reading of statistical terminology in professional literature, and the interpretation and application of educational research. Use of library resources, evaluation of educational research, and an introduction to elementary statistics are included.

LITERACY EMPHASIS (6 hours required; up to 9 hours accepted)**CMA 470. Advanced Writing and Editing**

Intensive study of English usage and punctuation; practice in diverse modes and tactics of writing; editing publishable materials to standards of present-day American English.

CMA 475. Film Literacy

A course in film analysis including an introduction to elements of film study, a brief survey of film history, and an explanation of significant directors, themes, or types of film.

CMA 520. Issues in Contemporary American English

Study of the characteristics features of contemporary American English in print and non-print media, dynamic factors in linguistic change; concerns about the state of American English today.

CMA 521. Mass Media in the Secondary School

Exploration of the function and uses of mass media in the secondary school classroom. Emphasis will be placed on relationships between media use and literacy; use of media as an instructional tool; and effect of media use on the student.

CMA 522. Print Journalism in the Secondary School

The course introduces teachers to the use of print media in teaching reading and composition, and will emphasize teaching news, feature, and editorial writing.

EDN 532. Teaching Reading to Diverse Learners

This course will explore a variety of theories and techniques for teaching reading to diverse learners, such as pre-schoolers, adults, culturally disadvantaged, bilingual, and exceptional students.

EED 542. Teaching English as a Second Language

Problems in introducing the grammar and idioms of American English to immigrant populations, both school age and adult, with emphasis on the former; materials and methods.

EED 543. Teaching Speech Communication and Drama

Study of characteristic forms of speech communication and drama as classroom and extracurricular activities; techniques of teaching and evaluating verbal and non-verbal performance.

EED 544. Process Writing Theory

Prerequisites: (1) Acceptance into North Carolina Writing Project at Pembroke State University, (2) To be taken simultaneously with EED 545.

Studies of the theoretical bases of process writing, especially those identified with The National Writing Project and The North Carolina Writing Project. Special attention to sequence in writing, discourse analysis, and rhetoric; and to research related to process writing, grading, and evaluation. Summer Only.

LITERATURE EMPHASIS (9 hours required; up to 12 hours accepted)**CMA 457. Shakespeare**

Prerequisite: CMA 246 recommended.

An introduction to the Elizabethan theatre, a study of Shakespeare's career as a dramatist, and a critical survey of a number of major plays — histories, comedies, and tragedies.

CMA 514, 515, 516, 517. Literature: Special Topics

A seminar approach to the study of a particular literary topic: special emphases such as dynamic changes in literature of specific minorities or cultures, or literature in its relationship to another medium or discipline; extended seminar papers examining individual themes, writers, or works. Course content will vary from term to term. Possible topics include Southern Literature, American Indian Literature, Black Literature, Journalism and the New Journalism, and Literature in Film Adaptation.

CMA 537, 538, 539, 540. Literature: Figures Seminar

A seminar approach to the study of one major literary figure (or perhaps a few major figures); extended seminar papers exploring particular works, themes, characteristics, or problems. Course content will vary from term to term. Possible topics include Chaucer, Faulkner, Mann, Pope & Swift, Milton, and Emerson & Thoreau.

CMA 562, 563, 564, 565. Literature: Epochs Seminar

A seminar approach to the study of a significant period of American, British, or world literature; seminar papers appraising characteristics of the epoch or an individual's shaping influences on the epoch. Course content will vary from term to term. Possible topics include The Romantic Rebellion, Literature of the English Renaissance, American Transcendentalism, and Eighteenth Century Studies.

CMA 566, 567, 568, 569. Literature: Genre Seminar

A seminar approach to the study of a particular literary type seen in its genesis, maturation, and subsequent influence; seminar papers exploring the contributions of a specific figure or major work to the development of the genre. Course content will vary from term to term. Possible topics include Development of the American Short Story, The Victorian Novel, Studies in Modern World Drama, The Epic, and Biography.

COGNATE ELECTIVES (0 hours required; up to 3 hours accepted)**EED 545. Process Writing: Practicum**

Prerequisites: (1) acceptance into the North Carolina Writing Project at Pembroke State University (2) To be taken simultaneously with EED 544.

Applications of process writing, especially those identified with the National Writing Project and The North Carolina Writing Project. Special attention to heuristics, conferencing, and sentence-combining and to practices, including those of T.D. Allen, that have proven effective in Southeastern North Carolina. Summer only.

EDN 529. Problems in the Investigation of Reading Instruction

Investigations of literature and research dealing with the teaching of reading in the elementary and secondary classroom. The course includes critical examination of the scientific studies, the nature of the reading act, the factors that facilitate effective reading instruction.

EDN 530. Reading in the Content Areas

This course is designed to provide teachers with knowledge of established and innovative practices of teaching reading in a variety of content-areas, such as mathematics, social studies, and health.

EDN 565. History and Philosophy of Education

Traces the history of educational thought and practice in the western world from ancient times to the present. Included are analysis and interpretation of important elements of modern education derived from leading philosophies throughout history.

PSY 422. Seminar on Psycholinguistics: Psychology of Language

Theories and research on the learning and use of language; includes speech perception, child language development, word meanings, deafness, and other related topics.

PHI 423. Philosophy of Art and Beauty

Aesthetic values in nature, art, literature, music, and drama.

SOC 545. Cultural Differences and Education

Sociological analysis of the educator's problems of insight and judgment when dealing with students, parents, townspeople, or colleagues who come from different cultural backgrounds; specific focus upon the problems of ethnocentrism as encountered by classroom teachers and administrators; explanation of teaching situations in terms of culture theory and cross cultural communication.

3. Mathematics Department (MAT)

***MAT 500. Curriculum Development and Evaluation in Mathematics Education**

A critical study of current issues, trends, and the design and evaluation of curriculum in mathematics education. Students will develop, use, and evaluate a teaching unit as a major part of the work in this course. Required of all master's candidates in mathematics education.

MAT 501. Theoretical Bases of Mathematics Instruction

An advanced study of the theoretical bases of mathematical instruction, including philosophical and psychological concerns. Instructional theories from the field of mathematics education will be examined, together with the research that supports these theories.

MAT 502. History of Mathematics

A historical development of selected topics in mathematics from ancient to modern times. Systems of numeration, geometrical notions, and the development of algebra and analysis with motivational and pedagogical relevance will be given emphasis.

MAT 503. Elements of Problem Solving

This course strengthens the student's mathematical problem-solving ability by extensive work with non-routine problems that can be solved by elementary methods. General strategies for creative problem-solving will be emphasized. Meaningful ways of dealing with such problems in the secondary school classroom will constitute a significant part of the course. Required of all masters candidates in mathematics education.

MAT 505. Elements of Mathematics for the Middle Grades Teacher

The content of this course is intended to provide teachers at the middle school level with the mathematics they need in order to be effective in the classroom. Topics include sets, metric geometry, and introductory algebra. These topics will be handled from a problem-solving point of view.

MAT 506. Statistics and Probability for the Secondary Mathematics Teacher

The emphasis of this course will be on understanding various statistical concepts and techniques including measures of central tendency, correlation coefficients, hypothesis testing, analysis of variance, and inferential statistics. The fundamentals of probability that will be discussed include univariate and multivariate distributions, expectation, conditional distributions, and the law of large numbers.

MAT 507. Discrete Mathematics for the Math Teacher

This course will stress applications of Discrete Mathematics and such discrete techniques as are now, or should be, found at the secondary level. Mathematical modeling will be an underlying concept of the course.

MAT 510. Point Set Topology

Elements of point set topology, separation properties, compactness, connectedness, functions, Tietze extension theorem, fundamental group, and covering spaces.

MAT 511. Advanced Topics in Geometry

Topics chosen to improve the secondary mathematics teacher's mastery, breadth of knowledge, and appreciation of classical geometry. Content variable, but chosen to minimize duplication with recent and current MAT 411 classes.

MAT 512. Advanced Topics in Linear Algebra

2- and 3-dimensional linear algebra over the numbers; geometric interpretations; and topics chosen to improve secondary teachers' breadth in and knowledge of Linear Algebra.

MAT 515. Topics in Number Theory

Topics chosen to improve the secondary mathematics teacher's mastery, breadth of knowledge, and appreciation of classical number theory. Content variable, but chosen to minimize duplication with recent and current MAT 415 classes.

MAT 521. Basic Ideas of Analysis I

A brief survey of the principal ideas and techniques of Calculus. Intended as a refresher course for high school teachers who feel the need for an understanding of Calculus in order to prepare their students for college work.

MAT 522. Basic Ideas of Analysis II

A continuation of MAT 521. This course continues developing the principal ideas and techniques of Calculus. Topics considered in 521 and 522 will generally coincide with topics covered in a three-semester Calculus sequence. (Any student taking MAT 521, and MAT 522, will be required to take three additional semester hours of Analysis.)

MAT 523. Real Analysis

Real number system; open and closed sets, covering properties, Borel sets. Measurable sets and measurable functions. Lebesque measure and integration, LP spaces.

MAT 526. Special Topics in Abstract Algebra

Selected topics from group, ring, and field theory that have implications to the secondary curriculum will be chosen for study.

MAT 532. Advanced Calculus for the Mathematics Teacher

A general overview of the topics generally found in Advanced calculus I and II. Topics include convergence, mean value theorems, cauchy criterion, integrability, multivariable functions, and the representations of functions by series and integrals.

MAT 544. Complex Analysis for the Mathematics Teacher

The complex numbers, analytic functions, conformal mapping, contour integration, Cauchy's theorem and integral formula. Taylor and Laurent expansions, residues, analytic continuation. Liouville's theorem.

CSC 505. Current Topics in Computers in Education

Prerequisite: Consent of the instructor.

Use of computers in Education. Discussion, use, and evaluation of computer software and hardware for the classroom. Applications to curriculum development. The course will include a required lab.

CSC 508. Computer Graphics for the Mathematics Teacher

This course introduces graphics appropriate to classroom settings at the pre-college level. Graphics that will be dealt with include various algebraic, geometric, and trigonometric relations. Methods that will be used include direct programming as well as the introduction of commercially available software designed for this purpose.

CSC 509. Programming and Algorithms for the Mathematics Teacher I

Programming in the PASCAL language, representations of data, constants, and variables (numeric and string), subprograms. Searching, sorting, and merging. More complex problem solving through computer programming. Stepwise refinement of programs. Principles of documentation.

CSC 510. Programming and Algorithms for the Mathematics Teacher II

An extension of programming in the PASCAL language. Principles of good programming style will be stressed. Debugging and testing of programs written by others. String processing. Advanced methods of searching and sorting. Recursion and its application to programming. Stacks and linked lists. Records and built-up data types.

CSC 511. Computer Hardware in an Educational Setting

A study of the various components that make up computer configurations in public school settings. Comparison of the various types of computer hardware available for use in the school. Particular attention will be given to evaluation of hardware for laboratory situations with both individual and networking of computers and computer terminals.

4. ADDITIONAL COURSES BY DEPARTMENTS FOR CONCENTRATION DEVELOPMENT AND RELATED AREAS**a. Biology Department (BIO)****BIO 512. Environmental Science**

Studies of air, soil and water pollution, including work being undertaken to remedy these problems; wildlife and soil conservation; and human ecology, particularly as related to the population problems of the world today. Three full-day field trips required.

b. Business Administration and Economics Department (ECN)**BIO 551. Economic Policies**

This course provides a comprehensive survey of the most significant relationships between the government sector and other parts of the American economy. Topics discussed include the following: Types of government, the nature of the private enterprise system and the role of government therein, the legal background for government action, the effects of politics and pressures, policies for economic growth, the problem of inflation, public and private debt, taxation, farm policy, labor legislation, consumer interests, conservation of natural resources, social security, foreign economic policy, and national defense. Significant current events and developments in economic policy are discussed as they occur.

c. Geology (GLY) and Geography (GGY) Department**GLY 501. Earth Science**

Advanced study of the processes that control the seasons, the atmosphere, the weather, the wind systems of the world, the oceans, volcanic activity, earthquakes, and the formation of rocks and minerals.

GGY 503. Descriptive Regional Analysis

Qualitative definition of geographical regions in the light of human interests: Physical, biotic, demographic and socio-cultural determinants; the relevance of regional factors for planning and policy issues in education, government, the economy, and the general welfare.

d. Health and Physical Education Department (HPE)**HPE 505. Principles of Health and Physical Education**

Designed to acquaint students with the philosophy, the aims, the objectives, the principles, and the practices of an effective health and physical education program in the public schools.

e. History Department (HST)**HST 510. Advanced North Carolina History**

An advanced study of the development of North Carolina from colonial beginnings to the present.

HST 520. History of the South

Prerequisite: Permission of the Instructor.

A political, economic, and cultural study of the southern region with emphasis on the characteristics which make it distinctive.

HST 540. Topics in History

Prerequisite: Permission of the Instructor.

This course will focus on one topic and explore it in great detail; the topic will be determined by the instructor specialization and will be announced in the schedule of courses. This course may be taken only once for credit.

f. Physical Science Department (PHS)**PHS 520. Current Trends in Physical Science**

A lecture-discussion presentation of current developments and trends in chemistry and physics.

g. Political Science Department (PLS)**PLS 535. Advanced Public Administration**

Emphasis is given to critical examination and analysis of principles, behavior, and problems and issues of public organization, management, and responsibility in the context of the American political system.

PLS 540. Systems of State and Local Government

Systematic survey of municipal, county, special district, and state governments, with special emphasis on critical examination of their roles and problems in the decision-making process of respective political subdivisions.

PLS 545. American Political Process

Examination of American political and governmental institutions and analysis of their process, relationship, and roles in the dynamics of the political system.

h. Psychology Department (PSY)**PSY 525. Advanced Study of Human Growth and Development**

An exploration in-depth into developmental theory coupled with intensive study through observation and research of the age level most appropriate to the credential sought. There will be a basic text on developmental theory to provide a common core. This will be supplemented by extensive related reading and other appropriate activities.

PSY 530. Psychology of Group Dynamics

This course will deal with the dynamics of interpersonal relationships within small groups. Emphasis will be on the person's perception of oneself in relation to the group and the group's perception and reaction to the individual member. Theoretical and practical case studies will be investigated. Role playing will be emphasized.

PSY 535. Introduction to Counseling for Elementary Teachers

An introductory survey of counseling with emphasis on basic skills and knowledge of techniques, particularly as related to situations encountered by elementary classroom teachers. This course is both didactic (theories of counseling) and experiential (role playing in class). Opportunities for classroom discussion, professional feedback about skills, and video taping.

PSY 540. Special Topics in Counseling

This course will provide an opportunity for in-depth exploration of advanced areas and topics of interest.

i. Sociology Department (SOC)**SOC 545. Cultural Differences and Education**

Sociological analysis of the educator's problems of insight and judgment when dealing with students, parents, townspeople, or colleagues who come from different cultural backgrounds; specific focus upon the problems of ethnocentrism as encountered by classroom teachers and administrators; explanation of teaching situations in terms of culture theory and crosscultural communication.

SOC 560. Education and Society

This course serves the needs of public school teachers and administrators by analyzing social institutions in relation to public schools in the United States. No previous knowledge of academic sociology or cultural anthropology is assumed.

PEMBROKE
STATE UNIVERSITY

Faculty

THE FACULTY

The listing that follows includes full-time members of the faculty and administrative officers who hold faculty rank and/or who teach. The date indicated is the year of initial appointment.

*On leave

**Professor Emeritus

✓ GEORGE T. AMMONS (1965) *Assistant Professor, Department of Business Administration and Economics*

B.S., UNC-Chapel Hill; CPA, State of North Carolina

ANDREW N. ASH (1989), *Associate Professor, Department of Biology*

B.S., Virginia Military Institute; M.S., North Carolina State University; Ph.D., University of Toronto

DANIEL G. BARBEE (1988), *Associate Professor and Director of Master of Science in Administrative Studies Program*

B.S., Catawba College; M.A., Lehigh University; Ph.D., University of Tennessee

RANDY BARKER, *Lecturer, Department of Communicative Arts, and Technical Assistant for Performing Arts Center*

B.A., Weber State University; M.F.A., Brigham Young University

JAMES J. BARDSLEY (1990), *Assistant Professor, Department of Business Administration and Economics*

B.S., Virginia Polytechnic Institute; M.B.A., University of Rochester; Ph.D., Syracuse University

NANCY W. BARRINEAU (1989), *Assistant Professor, Department of Communicative Arts*

B.A., Asbury College; M.A., University of Kentucky; Ph.D., University of Georgia

RAY VON BEATTY (1972), *Associate Professor, Department of Psychology*

B.S., Pembroke State University; M.Ed., Ph.D., UNC-Chapel Hill

DONALD E. BEKEN (1989), *Visiting Associate Professor, Department of Mathematics and Computer Science*

B.S., in Electrical Engineering, Valparaiso Technical Institute; B.S., in Mathematics, Kent State University; A.M. West Virginia University; Ph.D., University of Mississippi

SHARON S. BELL (1989), *Lecturer, Department of Business Administration and Economics*

B.S., Pembroke State University; M.B.A., The Lundy-Fetterman School of Business, Campbell University

PAUL J. BERGHOFF (1975), *Professor, Department of Education*

B.A., M.A., Ph.D., University of Michigan

WILLIAM R. BIDDLE (1986), *Lecturer, Department of Communicative Arts and Director of Givens Performing Arts Center*

B.A., Glassboro State College; M.F.A., University of Michigan

OLLIE G. BISHOP (1979), *Assistant Professor, Department of Business Administration and Economics*

B.S., Pembroke State University; M.B.A., UNC-Chapel Hill; CPA, State of North Carolina

- LEON M. BOLICH (1982), *Professor, Department of Business Administration and Economics*
B.B.A., Niagara University; M.A., Ph.D., Catholic University of America
- **GERALD C. BORLAND (1968), *Professor Emeritus, Department of Geology and Geography*
B.A., Pennsylvania State University; M.S., University of Arizona
- SUE BOWDEN (1990), *Associate Professor, Department of Physical Science*
B.A., Meredith College; M.A.T., Ph.D., UNC-Chapel Hill
- JOHN R. BOWMAN (1979), *Associate Professor, Department of Sociology, Social Work, and Criminal Justice*
B.A., University of Kentucky; M.S., Florida State University; Ph.D., The Ohio State University
- MARY P. BOYLES (1977), *Professor and Associate Vice Chancellor for Academic Affairs*
A.B., UNC-Greensboro; M.A., UNC-Chapel Hill; Ph.D., UNC- Greensboro
- CAROL W. BREWER (1988), *Lecturer, Department of Mathematics and Computer Science*
A.S., St. Mary's Junior College; B.A., UNC-Chapel Hill; M.A.Ed., Pembroke State University
- LILLIAN D. BREWINGTON (1988), *Instructor, Circulation Librarian, Library Services*
B.A., Pembroke State University; M.L.S., North Carolina Central University
- ELINOR BRIDGES (1989), *Director of Library Services*
B.A., Wake Forest University; M.L.S., UNC-Greensboro; Ed.D., UNC-Greensboro
- ✓ ROBERT F. BRITT (1960), *Professor, Department of Biology*
A.B., M.A., Ph.D., UNC-Chapel Hill
- MONIKA C. B. BROWN (1982), *Assistant Professor, Department of Communicative Arts*
B.A., University of Georgia; M.A., Ph.D., Duke University
- ROBERT W. BROWN (1979), *Associate Professor, Department of History; Faculty Coordinator, Chancellor's Scholars Program*
B.A., UNC-Chapel Hill; M.A., Marshall University; M.A., Ph.D., Duke University
- ELLEN J. BRYAN (1970), *Professor, Department of Health, Physical Education and Recreation; Director of Intramurals*
B.S., Pembroke State University; M.A.Ed., East Carolina University; D.A., Middle Tennessee State University
- NORMIE L. BULLARD (1988), *Instructor, Reference Librarian, Library Services*
B.S., Pembroke State University; M.L.S., North Carolina Central University
- **WILLIAM ROBERT BULLARD, JR. (1966), *Professor Emeritus, Department of History*
B.A., St. Andrews Presbyterian College; M.A., UNC-Chapel Hill
- ✓ LOREN L. BUTLER II (1966), *Assistant Professor, Department of History*
B.A., M.A., University of Arkansas
- MARIE BUTLER (1988), *Assistant Professor, Department of Aerospace Studies (AF-ROTC)*
B.S.. Grambling College; M.A., Chapman College

- **AVERY BUTTERS (1965), *Professor Emeritus, Department of History and Political Science*
A.B., Passionist Seminary; A.M., Ed.M., Boston College; M.S., Catholic University of American; Ph.D., Fordham University
- PATRICK A. CABE (1989), *Associate Professor, Department of Psychology*
B.A., M.A., University of Akron; Ph.D., Cornell University
- SUELLEN CABE (1987), *Assistant Professor, Department of Geology and Geography*
B.A., University of Akron; M.S., Ph.D., UNC-Chapel Hill
- **OTIS G. CARNES (1959), *Professor Emeritus, Departments of Philosophy and Religion and Communicative Arts*
B.A., Stephen F. Austin College; B.D., Yale University; Th.D., Boston University
- JAMES B. CHAVIS (1972), *Professor and Vice Chancellor for Student Affairs*
B.S., Pembroke State University; M.A.Ed., East Carolina University; Ed.D., Duke University
- JOHN CHAY (1969), *Professor, Department of History*
A.B., M.A., M.A.L.S., Ph.D., The University of Michigan
- RHODA P. COLLINS (1967), *Professor, Department of Education*
B.A., M.Ed., UNC-Chapel Hill; Ed.D., Duke University
- MAXWELL T. COURSON (1990), *Associate Professor Department of Communicative Arts*
A.B.J., M.A., University of Georgia; Ph.D., University of Hawaii
- EDWIN W. CRAIN (1965), *Professor, Department of Health, Physical Education and Recreation*
B.S., M.A., Appalachian State University; Ed.D., West Virginia University
- JOSE J. D'ARRUDA (1974), *Professor and Chairman, Department of Physical Science*
B.S., Lowell Technological Institute; M.S., Ph.D., University of Delaware
- DANNY ROSS DAVIS (1986), *Associate Professor, Department of Health, Physical Education and Recreation, Head Baseball Coach*
B.S., Union University; M.A., Western Kentucky University; D.A., Middle Tennessee State University
- ROBERT M. DAWLEY (1986), *Assistant Professor, Department of Music*
B.M., Eastman School of Music of The University of Rochester, M.A., Northeast Missouri State University, Ed.D., University of Illinois
- WILLIAM H. DEAN (1968), *Professor, Department of Education; Director of Graduate Studies*
B.S., M.A., East Carolina University; Ed.D., West Virginia University
- BRUCE J. DEHART (1989), *Assistant Professor, Department of History*
B.A., Greensboro College; M.A., Ph.D., UNC-Chapel Hill
- ✓ ADOLPH L. DIAL (1958), *Resident Consultant, Department of American Indian Studies*
B.A., Pembroke State University; Ed.M., C.A.G.S., Boston University; L.H.D., Greensboro College; L.H.D., Pembroke State University
- BEN JAY DRYMON (1977), *Senior Lecturer, Department of Education*
B.S., Davidson College; M.Ed., Ph.D., UNC-Chapel Hill

✓ ALBERT D. DUNAVAN (1965), *Associate Professor, Department of Communicative Arts*

B.S., M.A., University of Nebraska

✓ **JAMES B. EBERT (1956), *Professor Emeritus, Department of Biology*

B.S., Louisiana State University and A&M College; A.M., Duke University

DAVID K. ELIADES (1967), *Professor and Chairman, Department of History*

A.B., UNC-Chapel Hill; M.A., East Carolina University; Ph.D., University of South Carolina

HAROLD T. ELLEN (1967), *Assistant Professor, Department of Health, Physical Education and Recreation; Training Room Supervisor*

A.B., Elon College; M.A., East Carolina University

MARTHA L. ELLISON (1990), *Instructor, Department of Sociology, Social Work and Criminal Justice*

B.A., University of Evansville; MSW, Indiana University

CARL M. FISHER (1967), *Professor, Department of Education*

B.S., M.S., Ph.D., Florida State University

MARSHAL FITE (1987), *Assistant Professor and Director, Department of Military Science (AROTC)*

B.S., University of Oklahoma

PAUL ANTHONY FLOWERS (1989), *Assistant Professor, Department of Physical Science*

B.S., St. Andrews College; Ph.D., University of Tennessee

JAMES R. FREDERICK (1988), *Assistant Professor, Department of Business Administration and Economics*

B.A., University of Michigan; M.A., Ph.D., Wayne State University

WILLIAM F. FRITZ (1974), *Professor, Department of Music*

B.M., California Institute of the Arts; M.A., California State University; D.M.A., University of Miami

JEFFERY L. GELLER (1983), *Assistant Professor, Department of Philosophy and Religion*

B.A., California State University (Northridge); M.A., Ph.D., Duke University

✓ **GRACE E. GIBSON (1966), *Professor Emeritus, Department of Communicative Arts*

B.A., UNC-Greensboro; M.A., Duke University

JOSEPH W. GOLDSTON (1977), *Professor, Department of Mathematics and Computer Science*

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MAGNOLIA O. GRIFFITH (1970), *Associate Professor, Department of Business Administration and Economics*

B.S., M.A., Appalachian State University

ROBERT K. GUSTAFSON (1969), *Professor and Chairman, Department of Philosophy and Religion*

B.A., U.C.L.A.; M.Div., Th.M., Ph.D., Union Theological Seminary

*THERESA G. HALE (1980), *Lecturer, Department of Communicative Arts and Co-Director of College Opportunity Program*

B.A., Bethel College; M.A., University of Missouri

- *GEORGE L. HARPER (1976), *Professor, Department of Philosophy and Religion*
B.A., Randolph Macon College; M.Div., Yale University; Ph.D., Duke University
- JOHN C. HASKINS (1989), *Lecturer, Department of Health, Physical Education and Recreation*
A.S., Lees McRae College; B.S., UNC-Wilmington; M.A., Appalachian State University
- MICHAEL N. HAWTHORNE (1990), *Assistant Professor Department of Political Science*
B.A., University of Missouri-Columbia; Ph.D., University of Michigan
- KATHLEEN C. HILTON (1990), *Assistant Professor, Department of History*
B.Ed., Seattle University; M.A., Ph.D., Carnegie Mellon University
- LEONARD D. HOLMES (1990), *Assistant Professor, Department of Physical Science*
B.S., Westfield State College; Ph.D., Utah State University
- ✓ **JAMES HUBBARD (1965), *Professor Emeritus, Department of Psychology*
B.A., M.A., University of Richmond; B.D., Union Theological Seminary; Th.M., Pittsburgh Theological Seminary
- THOMAS H. JACKSON (1988), *Lecturer, Department of Mathematics and Computer Science*
B.S., Pembroke State University; M.S., College of William and Mary
- ✓ **JAMES A. JACOBS (1937), *Professor Emeritus, Department of Mathematics and Computer Science*
B.S., Murray State College; Ed. M., Duke University
- CHARLES R. JENKINS (1971), *Professor and Vice Chancellor for Academic Affairs*
B.S., M.A.Ed., East Carolina University; Ed.D., Duke University
- STANLEY R. JENKINS (1982), *Associate Professor, Department of Art*
B.S., Kutztown State College; M.Ed., D.Ed., Pennsylvania State University
- ✓ **DORIS M. JOHNSON (1966), *Professor Emeritus, Department of Music*
B.M., Syracuse University; Ed.M. The University of Buffalo
- ✓ **KENNETH P. JOHNSON (1964), *Professor Emeritus, Department of Health, Physical Education and Recreation*
B.S., Cortland State Teachers College; Ed.M., St. Lawrence University; Pe.D., Indiana University
- OLIVER R. JOHNSON (1988), *Professor, Department of Military Science (AROTC)*
B.S., West Point; M.S., Indiana University
- OSCAR T. JONES (1990), *Associate Professor, Department of Mathematics and Computer Science*
B.S., Wake Forrest University; M.S., University of Michigan; Ph.D., Florida State University
- CHESTER I. JORDAN (1979), *Associate Professor, Department of Communicative Arts*
B.A., Emory and Henry College; M.A., University of Wyoming; Ph.D., Bowling Green State University
- BONNIE A. KELLEY (1977), *Professor, Department of Biology*
B.S., North Georgia College; M.Ed., Ph.D., University of Georgia
- DANIEL KENNEY (1985), *Lecturer and Head Men's Basketball Coach, Department of Health, Physical Education and Recreation.*
B.S., M.A.Ed., East Carolina University

- PAUL W. KILLIAN, JR. (1967), *Professor and Chairman, Department of Psychology*
A.B., M.A., East Carolina University; Ph.D., North Carolina State University
- STANLEY KNICK (1986), *Director/Curator and Research Assistant Professor, Native American Resource Center*
B.A., UNC-Greensboro; M.A., Ph.D., Indiana University
- ✓ **MIN-CHUAN KU (1965), *Professor Emeritus, Department of Political Science*
L.L.B., National Cheng-chi University; China; M.A., University of Michigan; Ph.D., New York University
- ✓ DAVID K. KUO (1966), *Professor, Department of Biology*
B.S., National Taiwan University; M.F., Ph.D., University of Georgia
- ELIZABETH H. KUO (1967), *Professor, Department of Geology and Geography*
B.S., National Taiwan University; M.A., University of Georgia; Ph.D., UNC-Chapel Hill
- ROBERT L. LAMPHERE (1989), *Visiting Assistant Professor, Department of Mathematics and Computer Science*
A.A., Triton College; B.A., Elmhurst College; M.S., University of Illinois; M.S., Northern Illinois University
- MARVIN E. LANDS (1988), *Assistant Professor and Director, Department of Aerospace Studies (AFROTC)*
B.A., Laverne University; M.A., Golden Gate University
- DAWN T. LANGLEY (1989), *Lecturer, Department of Health, Physical Education and Recreation; Head Women's Softball Coach; Head Women's Volleyball Coach*
B.A., St. Andrews Presbyterian College; M.S., United States Sports Academy
- NORMAN R. LAYNE, JR. (1977), *Professor, Department of Sociology, Social Work and Criminal Justice*
B.A., M.A., Ph.D., University of Georgia
- THOMAS J. LEACH (1975), *Professor and Chairman, Department of Communicative Arts*
B.S., U.S. Naval Academy; M.A., Ph.D., UNC-Chapel Hill
- ✓ *LOIS B. LEWIS (1963), *Professor Emeritus, Department of Communicative Arts*
B.S., M.A., University of Akron; Ed.S., George Peabody College
- DONALD R. LITTLE (1974), *Professor and Chairman, Department of Education*
A.B., Mercer University; M.Ed. Ed.D., University of Georgia
- ZOE WOODELL LOCKLEAR (1988), *Assistant Professor and Director of Teacher Education Field Experiences*
B.S., Pembroke State University; M.Ed., Ph.D., UNC-Chapel Hill
- ANNE LOCKWOOD (1989), *Lecturer, Department of Communicative Arts, College Opportunity Program*
B.A., Oberlin College; M.A., Duke University
- EMMETT N. LOMBARD (1990), *Assistant Professor, Department of Political Science*
B.A., M.A., Edinboro State University; Ph.D., Colorado State University
- THOMAS H. McANINCH (1990), *Assistant Professor, Department of Sociology, Social Work and Criminal Justice*
B.A., M.S., Marshall University; M.A., University of Illinois; Ph.D., Illinois State University

STEVEN McCARTNEY (1988), *Instructor and Acquisitions/Collection Development Librarian, Library Services*

B.S., University of Southwestern Louisiana; M.L.S., University of Southern Mississippi

RAYMOND McDANIEL, JR. (1987), *Lecturer, Department of Mathematics and Computer Science*

B.A., Harding University; M.S., Arkansas State University

✓ JEROME A. McDUFFIE (1965), *Professor, Department of History*

B.A., Pembroke State University; M.A., Wake Forest University; Ph.D., Kent State University

✓ JOSEPH A. McGIRT (1965), *Associate Professor, Department of Biology*

B.S., Pembroke State University; M.A., George Peabody College

WILLIE McNEILL, JR. (1976), *Associate Professor, Department of Education*

B.S., Livingstone College; M.S., North Carolina A&T State University; Ed.D., Pennsylvania State University

ELIZABETH MAISONPIERRE (1988), *Lecturer, Department of Music*

B.M., Ohio Wesleyan University; M.M., D.M.A., University of Maryland

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B.S., Jackson State University; M.L.S., Atlanta University
- JUDITH L. WISH (1977), *Professor, Department of Education*
B.S., Campbell College; M.Ed., UNC-Chapel Hill; Ed.D., Duke University
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B.S., M.S., Marshall University
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*On Leave

**Professor Emeritus

CHIEF EXECUTIVES*
of
PEMBROKE STATE UNIVERSITY

O.H. BROWN, *Acting President* (1940-1942)

B.S., North Carolina State; Ph.D., Johns Hopkins University

RALPH D. WELLONS, *President* (1942-1956)

A.B., M.A., Indiana University; Ph.D., Teachers College, Columbia University

WALTER J. GALE, *President* (1956-1962)

B.S., New Jersey State Teachers College; M.Ed., Ed.D., Duke University

ENGLISH E. JONES., *President* (1962-1972); *Chancellor* (1972-1979); *Chancellor Emeritus* (1979-1981)

B.S., University of Kentucky; M.S., North Carolina State University; LL.D., Wake Forest University; D.H., Pembroke State University

PAUL R. GIVENS, *Chancellor* (1979-1989)

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JOSEPH B. OXENDINE, *Chancellor* (1989-)

B.A., Catawba College; M.Ed., Ed.D., Boston University

*This list includes chief executives since the institution became a totally collegiate-level institution. Prior to 1940, chief executives held the title of principal or superintendent. The title of President was changed to Chancellor beginning July 1, 1972, when Pembroke State University became a constituent institution of The University of North Carolina.

SUMMARY OF ENROLLMENT

89-90

SUMMER SESSION, 1989

First Term.....	1209
Second Term	948
Total Enrolled.....	2157

FALL SEMESTER, 1989

Freshmen.....	793
Sophomores.....	680
Juniors	490
Seniors.....	570
Special.....	179
Graduate.....	369
Total Number Enrolled	3081

SPRING SEMESTER 1990

Freshmen.....	616
Sophomores.....	592
Juniors	542
Seniors.....	594
Special.....	373
Graduate.....	154
Total Number Enrolled	2871

**DEGREES CONFERRED,
MAY 1989**

Bachelor of Science and Applied Science.....	264
Bachelor of Arts	115
Master of Arts.....	82
Total Number of Degrees Conferred	461

**UNIVERSITY ENROLLMENT,
FALL 1989**

Men	1882
Women	1199
Total Enrollment.....	3081

**OUT-OF-STATE STUDENTS
1989-90**

Alabama.....	1
Alaska	0
Arizona.....	0
Arkansas	0
California	2
Colorado	0

Connecticut	1
District of Columbia	0
Deleware	0
Florida.....	12
Georgia.....	6
Hawaii.....	1
Idaho.....	0
Illinois	0
Indiana.....	0
Iowa.....	2
Kansas	0
Kentucky	2
Louisiana.....	0
Maine	1
Maryland	8
Massachusetts	2
Michigan	1
Minnesota.....	0
Mississippi	1
Missouri	0
Montana	0
Nebraska	0
Nevada	0
New Hampshire.....	1
New Jersey	4
New York.....	15
Ohio.....	3
Oklahoma	1
Pennsylvania.....	1
Rhode Island	0
South Carolina	13
Texas	1
Utah.....	0
Vermont	1
Virginia.....	12
Washington	0
West Virginia	1
Wisconsin	0

FOREIGN STUDENTS, FALL

1989.....	10
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**ENROLLMENT BY COUNTIES
OF NORTH CAROLINA, FALL
1989**

Alamance	11
Alexander	0

Alleghany	0	Johnson.....	14
Anson.....	16	Jones	1
Ashe	0	Lee	2
Avery	0	Lenior.....	2
Beaufort	0	Lincoln	1
Bertie	0	Macon	0
Bladen	117	Madison	0
Brunswick.....	19	Martin	1
Buncombe.....	2	McDowell.....	2
Burke	1	Mecklenburg.....	18
Cabarrus.....	2	Mitchell	0
Caldwell.....	1	Montgomery	4
Conder.....	0	Moore.....	67
Carteret	4	Nash	3
Caswell.....	2	New Hanover.....	16
Catawba	5	Onslow	7
Chatham.....	4	Orange.....	1
Cherokee	0	Pamlico.....	0
Cleveland	1	Pasquotank.....	1
Columbus	146	Pender	1
Craven.....	6	Perquimans	1
Cumberland.....	462	Person	0
Currituck	0	Randolph	8
Dare.....	0	Richmond	125
Davidson	4	Robeson	1408
Davie	2	Rockingham	2
Duplin	5	Rowan	5
Durham.....	15	Rutherford	0
Edgecombe	0	Sampson.....	17
Forsyth	12	Scotland	229
Franklin	0	Stanly	0
Gaston	10	Stokes.....	1
Gates.....	0	Surry	2
Graham.....	2	Swain	1
Granville	0	Transylvania	2
Green	0	Tyrrell	0
Guilford	13	Union	5
Halifax.....	8	Vance	1
Harnett.....	14	Wake.....	50
Haywood	1	Warren.....	4
Henderson.....	3	Washington	0
Hertford	1	Watauga	1
Hoke	74	Wayne	5
Hyde	0	Wilkes	0
Iredell.....	6	Wilson	1
Jackson	0	Yadkin	0

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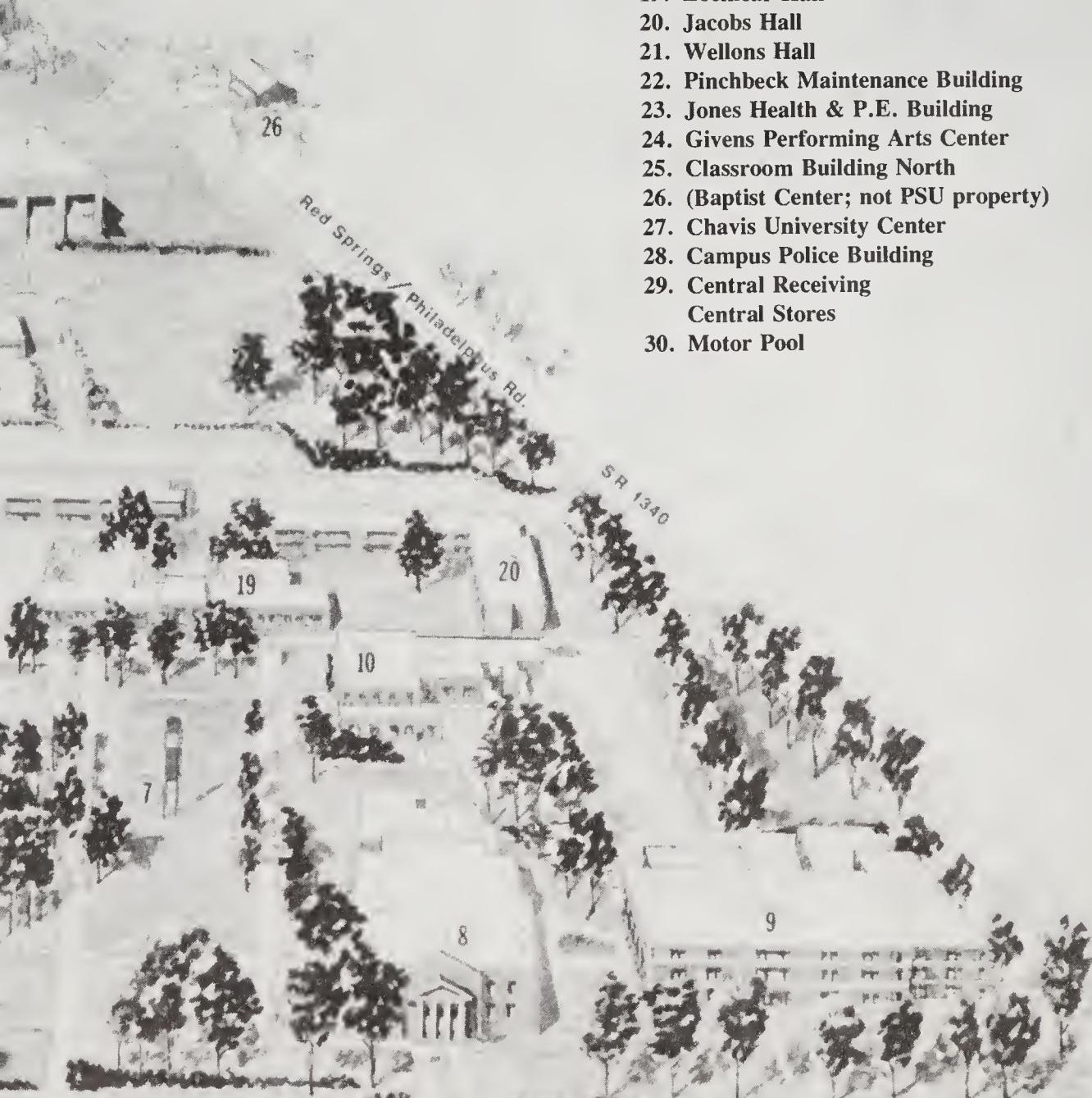
PEMBROKE STATE UNIVERSITY



KEY TO MAP

1. Sampson Hall (Administration)
2. Livermore Library
3. Admissions Building
4. Chancellor's Residence
5. Infirmary
7. Lowry Bell Tower
8. Old Main
9. Oxendine Science Building
10. Moore Hall

11. Belk Hall
12. West Hall
13. North Hall
14. Educational Center
15. Business Administration Building
16. Continuing Education & Summer School
Air Force ROTC & Army ROTC
17. Book Store
18. Special Programs
19. Locklear Hall
20. Jacobs Hall
21. Wellons Hall
22. Pinchbeck Maintenance Building
23. Jones Health & P.E. Building
24. Givens Performing Arts Center
25. Classroom Building North
26. (Baptist Center; not PSU property)
27. Chavis University Center
28. Campus Police Building
29. Central Receiving
Central Stores
30. Motor Pool





Pembroke State University is dedicated to equality of opportunity within its community. Accordingly, Pembroke State University does not practice or condone discrimination, in any form, against students, employees, or applicants on the ground of race, color, national origin, religion, sex, age, or handicap. Pembroke State University commits itself to positive action to secure equal opportunity regardless of those characteristics.

Pembroke State University supports the protections available to members of its community under all applicable Federal laws, including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 799A and 845 of the Public Health Service Act, the Equal Pay and Age Discrimination Acts, the Rehabilitation Act of 1973, and Executive Order 11246.

The University policy relating to student records complies with the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment). Accordingly, the University will release "directory information" to any person upon request, unless a student requests in writing that "directory information" be held private. "Directory information" is designated as:

Student's name

Sex

Address (campus, local, and/or permanent)

Telephone number

Date and place of birth

Major field of study, class, dates of attendance, degrees, honors received

Most recent previous educational institution attended

Participation in officially recognized activities, including intercollegiate athletics

Name, weight, and height of participants on intercollegiate athletic teams.

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PEMBROKE STATE UNIVERSITY

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